

Potential Flow Forces and Moments from Selected Ship Flow Codes in a Set of Numerical Experiments

Appendix C — Time History Plots for Prescribed Roll Motion of Model 5613

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C-194.	Time history of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-526
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C-209.	Time history of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-556
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C-217.	Time history of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-572
C-218.	Time history of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-574
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C-222.	Time history of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-582
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C-226.	Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-590
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C-262.	Time history of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-662
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C-264.	Time history of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-666
C-265.	Time history of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-668
C-266.	Time history of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-670
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C-275.	Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-688
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C-279.	Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-696
C-280.	Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-698
C-281.	Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-700
C-282.	Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-702
C-283.	Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-704
C-284.	Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-706
C-285.	Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-708
C-286.	Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-710
C-287.	Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-712
C-288.	Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-714
C-289.	Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-716
C-290.	Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-718
C-291.	Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-720

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C-292.	Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-722
C-293.	Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-724
C-294.	Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-726
C-295.	Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-728
C-296.	Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-730
C-297.	Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-732
C-298.	Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-734
C-299.	Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-736
C-300.	Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-738
C-301.	Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-740
C-302.	Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-742
C-303.	Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-744
C-304.	Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-746
C-305.	Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-748

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C-306.	Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-750
C-307.	Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-752
C-308.	Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-754
C-309.	Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-756
C-310.	Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-758
C-311.	Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-760
C-312.	Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-762
C-313.	Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-764
C-314.	Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-766
C-315.	Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-768
C-316.	Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-770
C-317.	Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-772
C-318.	Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-774
C-319.	Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-776

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C-320.	Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-778
C-321.	Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-780
C-322.	Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-782
C-323.	Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-784
C-324.	Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-786
C-325.	Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-788
C-326.	Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-790
C-327.	Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-792
C-328.	Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-794
C-329.	Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-796
C-330.	Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-798
C-331.	Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-800
C-332.	Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-802
C-333.	Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-804

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C-334.	Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-806
C-335.	Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-808
C-336.	Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-810
C-337.	Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-812
C-338.	Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-814
C-339.	Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-816
C-340.	Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-818
C-341.	Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-820
C-342.	Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-822
C-343.	Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-824
C-344.	Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-826
C-345.	Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-828
C-346.	Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-830
C-347.	Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-832

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C-348.	Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-834
C-349.	Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-836
C-350.	Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-838
C-351.	Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-840
C-352.	Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-842
C-353.	Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-844
C-354.	Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-846
C-355.	Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-848
C-356.	Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-850
C-357.	Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-852
C-358.	Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-854
C-359.	Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-856
C-360.	Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-858
C-361.	Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-860

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C-362.	Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-862
C-363.	Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-864
C-364.	Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-866
C-365.	Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-868
C-366.	Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-870
C-367.	Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-872
C-368.	Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-874
C-369.	Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-876
C-370.	Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-878
C-371.	Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-880
C-372.	Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-882
C-373.	Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-884
C-374.	Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-886
C-375.	Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-888

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C-376.	Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-890
C-377.	Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-892
C-378.	Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-894
C-379.	Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-896
C-380.	Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-898
C-381.	Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-900
C-382.	Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-902
C-383.	Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-904
C-384.	Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-906
C-385.	Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-908
C-386.	Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-910
C-387.	Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-912
C-388.	Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-914
C-389.	Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-916

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C-390.	Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-918
C-391.	Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-920
C-392.	Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-922
C-393.	Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-924
C-394.	Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-926
C-395.	Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-928
C-396.	Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-930
C-397.	Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-932
C-398.	Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-934
C-399.	Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-936
C-400.	Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-938
C-401.	Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-940
C-402.	Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-942
C-403.	Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-944

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C-404.	Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-946
C-405.	Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-948
C-406.	Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-950
C-407.	Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-952
C-408.	Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-954
C-409.	Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-956
C-410.	Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-958
C-411.	Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-960
C-412.	Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-962
C-413.	Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-964
C-414.	Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-966
C-415.	Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-968
C-416.	Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-970
C-417.	Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-972

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C-418.	Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-974
C-419.	Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-976
C-420.	Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-978
C-421.	Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-980
C-422.	Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-982
C-423.	Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-984
C-424.	Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-986
C-425.	Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-988
C-426.	Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-990
C-427.	Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-992
C-428.	Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-994
C-429.	Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-996
C-430.	Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-998
C-431.	Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1000

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C-432.	Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1002
C-433.	Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1004
C-434.	Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1006
C-435.	Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1008
C-436.	Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1010
C-437.	Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1012
C-438.	Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1014
C-439.	Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1016
C-440.	Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1018
C-441.	Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1020
C-442.	Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1022
C-443.	Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1024
C-444.	Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1026
C-445.	Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1028

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C-446.	Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1030
C-447.	Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1032
C-448.	Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1034
C-449.	Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1036
C-450.	Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1038
C-451.	Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1040
C-452.	Time history of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1042
C-453.	Time history of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1044
C-454.	Time history of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1046
C-455.	Time history of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1048
C-456.	Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1050
C-457.	Time history of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1052
C-458.	Time history of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1054
C-459.	Time history of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1056

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C-460.	Time history of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1058
C-461.	Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1060
C-462.	Time history of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1062
C-463.	Time history of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.	C-1064
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C-266.	Minimum and maximum of of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-405
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- C-285. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-425
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- C-288. Minimum and maximum of of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-427
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- C-298. Minimum and maximum of of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-437
- C-299. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-439

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- C-300. Minimum and maximum of of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-439
- C-301. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-441
- C-302. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-441
- C-303. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-443
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- C-305. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-445
- C-306. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-445
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- C-309. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-449
- C-310. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-449
- C-311. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-451

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- C-312. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-451
- C-313. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-453
- C-314. Minimum and maximum of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-453
- C-315. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-455
- C-316. Minimum and maximum of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-455
- C-317. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-457
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- C-321. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-461
- C-322. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-461
- C-323. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-463

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- C-324. Minimum and maximum of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-463
- C-325. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-465
- C-326. Minimum and maximum of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-465
- C-327. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-467
- C-328. Minimum and maximum of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-467
- C-329. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-469
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- C-333. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-473
- C-334. Minimum and maximum of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-473
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- C-336. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-475
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- C-345. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-485
- C-346. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-485
- C-347. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-487

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- C-348. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-487
- C-349. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-489
- C-350. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-489
- C-351. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-491
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- C-353. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-493
- C-354. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-493
- C-355. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-495
- C-356. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-495
- C-357. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-497
- C-358. Minimum and maximum of of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-497
- C-359. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-499

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C-360.	Minimum and maximum of of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-499
C-361.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-501
C-362.	Minimum and maximum of of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-501
C-363.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-503
C-364.	Minimum and maximum of of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-503
C-365.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-505
C-366.	Minimum and maximum of of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-505
C-367.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-507
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- C-372. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-511
- C-373. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-513
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- C-375. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-515
- C-376. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-515
- C-377. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-517
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- C-379. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-519
- C-380. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-519
- C-381. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-521
- C-382. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-521
- C-383. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-523

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- C-384. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-523
- C-385. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-525
- C-386. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-525
- C-387. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-527
- C-388. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-527
- C-389. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-529
- C-390. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-529
- C-391. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-531
- C-392. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-531
- C-393. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-533
- C-394. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-533
- C-395. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-535

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- C-396. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-535
- C-397. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-537
- C-398. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-537
- C-399. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-539
- C-400. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-539
- C-401. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-541
- C-402. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-541
- C-403. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-543
- C-404. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-543
- C-405. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-545
- C-406. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-545
- C-407. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-547

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- C-408. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-547
- C-409. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-549
- C-410. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-549
- C-411. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-551
- C-412. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-551
- C-413. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-553
- C-414. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-553
- C-415. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-555
- C-416. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-555
- C-417. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-557
- C-418. Minimum and maximum of of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-557
- C-419. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-559

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- C-420. Minimum and maximum of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-559
- C-421. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-561
- C-422. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-561
- C-423. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-563
- C-424. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-563
- C-425. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-565
- C-426. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-565
- C-427. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-567
- C-428. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-567
- C-429. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-569
- C-430. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-569
- C-431. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-571

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- C-432. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-571
- C-433. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-573
- C-434. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-573
- C-435. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-575
- C-436. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-575
- C-437. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-577
- C-438. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-577
- C-439. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-579
- C-440. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-579
- C-441. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-581
- C-442. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-581
- C-443. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-583

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- C-444. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-583
- C-445. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-585
- C-446. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-585
- C-447. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-587
- C-448. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-587
- C-449. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-589
- C-450. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-589
- C-451. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-591
- C-452. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-591
- C-453. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-593
- C-454. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-593
- C-455. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-595

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- C-456. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-595
- C-457. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-597
- C-458. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-597
- C-459. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-599
- C-460. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-599
- C-461. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-601
- C-462. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-601
- C-463. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-603
- C-464. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-603
- C-465. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-605
- C-466. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-605
- C-467. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-607

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- C-468. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-607
- C-469. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-609
- C-470. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-609
- C-471. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-611
- C-472. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-611
- C-473. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-613
- C-474. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-613
- C-475. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-615
- C-476. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-615
- C-477. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-617
- C-478. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-617
- C-479. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-619

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- C-480. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-619
- C-481. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-621
- C-482. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-621
- C-483. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-623
- C-484. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-623
- C-485. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-625
- C-486. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-625
- C-487. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-627
- C-488. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-627
- C-489. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-629
- C-490. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-629
- C-491. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-631

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- C-492. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-631
- C-493. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-633
- C-494. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-633
- C-495. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-635
- C-496. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-635
- C-497. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-637
- C-498. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-637
- C-499. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-639
- C-500. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-639
- C-501. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-641
- C-502. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-641
- C-503. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-643

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- C-504. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-643
- C-505. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-645
- C-506. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-645
- C-507. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-647
- C-508. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-647
- C-509. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-649
- C-510. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-649
- C-511. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-651
- C-512. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-651
- C-513. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-653
- C-514. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-653
- C-515. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-655

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- C-516. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-655
- C-517. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-657
- C-518. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-657
- C-519. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-659
- C-520. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-659
- C-521. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-661
- C-522. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-661
- C-523. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-663
- C-524. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-663
- C-525. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-665
- C-526. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-665
- C-527. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-667

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- C-528. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-667
- C-529. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-669
- C-530. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-669
- C-531. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-671
- C-532. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-671
- C-533. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-673
- C-534. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-673
- C-535. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-675
- C-536. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-675
- C-537. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-677
- C-538. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-677
- C-539. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-679

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- C-540. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-679
- C-541. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-681
- C-542. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-681
- C-543. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-683
- C-544. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-683
- C-545. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-685
- C-546. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-685
- C-547. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-687
- C-548. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-687
- C-549. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-689
- C-550. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-689
- C-551. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-691

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- C-552. Minimum and maximum of of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-691
- C-553. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-693
- C-554. Minimum and maximum of of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-693
- C-555. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-695
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- C-557. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-697
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- C-562. Minimum and maximum of of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-701
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- C-564. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-703
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- C-567. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-707
- C-568. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-707
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- C-573. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-713
- C-574. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-713
- C-575. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-715

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- C-576. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-715
- C-577. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-717
- C-578. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-717
- C-579. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-719
- C-580. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-719
- C-581. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-721
- C-582. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-721
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- C-584. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-723
- C-585. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-725
- C-586. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-725
- C-587. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-727

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- C-588. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-727
- C-589. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-729
- C-590. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-729
- C-591. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-731
- C-592. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-731
- C-593. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-733
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- C-595. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-735
- C-596. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-735
- C-597. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-737
- C-598. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-737
- C-599. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-739

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- C-600. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-739
- C-601. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-741
- C-602. Minimum and maximum of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-741
- C-603. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-743
- C-604. Minimum and maximum of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-743
- C-605. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-745
- C-606. Minimum and maximum of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-745
- C-607. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-747
- C-608. Minimum and maximum of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-747
- C-609. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-749
- C-610. Minimum and maximum of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-749
- C-611. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-751

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- C-612. Minimum and maximum of of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-751
- C-613. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-753
- C-614. Minimum and maximum of of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-753
- C-615. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-755
- C-616. Minimum and maximum of of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-755
- C-617. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-757
- C-618. Minimum and maximum of of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-757
- C-619. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-759
- C-620. Minimum and maximum of of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-759
- C-621. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-761
- C-622. Minimum and maximum of of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-761
- C-623. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-763

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- C-624. Minimum and maximum of of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-763
- C-625. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-765
- C-626. Minimum and maximum of of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-765
- C-627. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-767
- C-628. Minimum and maximum of of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-767
- C-629. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-769
- C-630. Minimum and maximum of of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-769
- C-631. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-771
- C-632. Minimum and maximum of of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-771
- C-633. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-773
- C-634. Minimum and maximum of of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-773
- C-635. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-775

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- C-636. Minimum and maximum of of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-775
- C-637. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-777
- C-638. Minimum and maximum of of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-777
- C-639. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-779
- C-640. Minimum and maximum of of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-779
- C-641. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-781
- C-642. Minimum and maximum of of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-781
- C-643. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-783
- C-644. Minimum and maximum of of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-783
- C-645. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-785
- C-646. Minimum and maximum of of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-785
- C-647. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-787

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- C-648. Minimum and maximum of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-787
- C-649. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-789
- C-650. Minimum and maximum of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-789
- C-651. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-791
- C-652. Minimum and maximum of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-791
- C-653. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-793
- C-654. Minimum and maximum of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-793
- C-655. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-795
- C-656. Minimum and maximum of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-795
- C-657. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-797
- C-658. Minimum and maximum of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-797
- C-659. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-799

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C-660.	Minimum and maximum of of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-799
C-661.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-801
C-662.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-801
C-663.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-803
C-664.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-803
C-665.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-805
C-666.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-805
C-667.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-807
C-668.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-807
C-669.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-809
C-670.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-809
C-671.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-811

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- C-672. Minimum and maximum of of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-811
- C-673. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-813
- C-674. Minimum and maximum of of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-813
- C-675. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-815
- C-676. Minimum and maximum of of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-815
- C-677. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-817
- C-678. Minimum and maximum of of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-817
- C-679. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-819
- C-680. Minimum and maximum of of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-819
- C-681. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-821
- C-682. Minimum and maximum of of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-821
- C-683. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-823

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- C-684. Minimum and maximum of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-823
- C-685. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-825
- C-686. Minimum and maximum of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-825
- C-687. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-827
- C-688. Minimum and maximum of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-827
- C-689. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-829
- C-690. Minimum and maximum of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-829
- C-691. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-831
- C-692. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-831
- C-693. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-833
- C-694. Minimum and maximum of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-833
- C-695. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-835

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C-696.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-835
C-697.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-837
C-698.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-837
C-699.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-839
C-700.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-839
C-701.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-841
C-702.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-841
C-703.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-843
C-704.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-843
C-705.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-845
C-706.	Minimum and maximum of of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-845
C-707.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-847

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- C-708. Minimum and maximum of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-847
- C-709. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-849
- C-710. Minimum and maximum of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-849
- C-711. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-851
- C-712. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-851
- C-713. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-853
- C-714. Minimum and maximum of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-853
- C-715. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-855
- C-716. Minimum and maximum of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-855
- C-717. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-857
- C-718. Minimum and maximum of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-857
- C-719. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-859

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- C-720. Minimum and maximum of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-859
- C-721. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-861
- C-722. Minimum and maximum of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-861
- C-723. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-863
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- C-725. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-865
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- C-727. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-867
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- C-732. Minimum and maximum of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-871
- C-733. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-873
- C-734. Minimum and maximum of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-873
- C-735. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-875
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- C-737. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-877
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- C-741. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-881
- C-742. Minimum and maximum of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-881
- C-743. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-883

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- C-744. Minimum and maximum of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-883
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- C-747. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-887
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- C-749. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-889
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- C-753. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-893
- C-754. Minimum and maximum of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-893
- C-755. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-895

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C-756.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-895
C-757.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-897
C-758.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-897
C-759.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-899
C-760.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-899
C-761.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-901
C-762.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-901
C-763.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-903
C-764.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-903
C-765.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-905
C-766.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-905
C-767.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-907

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C-768.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-907
C-769.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-909
C-770.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-909
C-771.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-911
C-772.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-911
C-773.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-913
C-774.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-913
C-775.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-915
C-776.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-915
C-777.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-917
C-778.	Minimum and maximum of of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-917
C-779.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-919

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- C-780. Minimum and maximum of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-919
- C-781. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-921
- C-782. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-921
- C-783. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-923
- C-784. Minimum and maximum of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-923
- C-785. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-925
- C-786. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-925
- C-787. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-927
- C-788. Minimum and maximum of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-927
- C-789. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-929
- C-790. Minimum and maximum of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-929
- C-791. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-931

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- C-792. Minimum and maximum of of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-931
- C-793. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-933
- C-794. Minimum and maximum of of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-933
- C-795. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-935
- C-796. Minimum and maximum of of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-935
- C-797. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-937
- C-798. Minimum and maximum of of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-937
- C-799. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-939
- C-800. Minimum and maximum of of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-939
- C-801. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-941
- C-802. Minimum and maximum of of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-941
- C-803. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-943

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- C-804. Minimum and maximum of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-943
- C-805. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-945
- C-806. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-945
- C-807. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-947
- C-808. Minimum and maximum of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-947
- C-809. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-949
- C-810. Minimum and maximum of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-949
- C-811. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-951
- C-812. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-951
- C-813. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-953
- C-814. Minimum and maximum of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-953
- C-815. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-955

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- C-816. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-955
- C-817. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-957
- C-818. Minimum and maximum of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-957
- C-819. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-959
- C-820. Minimum and maximum of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-959
- C-821. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-961
- C-822. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-961
- C-823. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-963
- C-824. Minimum and maximum of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-963
- C-825. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-965
- C-826. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-965
- C-827. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-967

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- C-828. Minimum and maximum of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-967
- C-829. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-969
- C-830. Minimum and maximum of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-969
- C-831. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-971
- C-832. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-971
- C-833. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-973
- C-834. Minimum and maximum of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-973
- C-835. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-975
- C-836. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-975
- C-837. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-977
- C-838. Minimum and maximum of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-977
- C-839. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-979

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- C-840. Minimum and maximum of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-979
- C-841. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-981
- C-842. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-981
- C-843. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-983
- C-844. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-983
- C-845. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-985
- C-846. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-985
- C-847. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-987
- C-848. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-987
- C-849. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-989
- C-850. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-989
- C-851. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-991

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- C-852. Minimum and maximum of of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-991
- C-853. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-993
- C-854. Minimum and maximum of of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-993
- C-855. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-995
- C-856. Minimum and maximum of of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-995
- C-857. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-997
- C-858. Minimum and maximum of of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-997
- C-859. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-999
- C-860. Minimum and maximum of of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-999
- C-861. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1001
- C-862. Minimum and maximum of of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1001
- C-863. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1003

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- C-864. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1003
- C-865. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1005
- C-866. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1005
- C-867. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1007
- C-868. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1007
- C-869. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1009
- C-870. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1009
- C-871. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1011
- C-872. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1011
- C-873. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1013
- C-874. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1013
- C-875. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1015

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- C-876. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1015
- C-877. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1017
- C-878. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1017
- C-879. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1019
- C-880. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1019
- C-881. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1021
- C-882. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1021
- C-883. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1023
- C-884. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1023
- C-885. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1025
- C-886. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1025
- C-887. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1027

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- C-888. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1027
- C-889. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1029
- C-890. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1029
- C-891. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1031
- C-892. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1031
- C-893. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1033
- C-894. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1033
- C-895. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1035
- C-896. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1035
- C-897. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1037
- C-898. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1037
- C-899. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1039

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- C-900. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1039
- C-901. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1041
- C-902. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1041
- C-903. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1043
- C-904. Minimum and maximum of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1043
- C-905. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1045
- C-906. Minimum and maximum of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1045
- C-907. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1047
- C-908. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1047
- C-909. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1049
- C-910. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1049
- C-911. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1051

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- C-912. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1051
- C-913. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1053
- C-914. Minimum and maximum of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1053
- C-915. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1055
- C-916. Minimum and maximum of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1055
- C-917. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1057
- C-918. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1057
- C-919. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1059
- C-920. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1059
- C-921. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1061
- C-922. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1061
- C-923. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1063

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- C-924. Minimum and maximum of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1063
- C-925. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1065
- C-926. Minimum and maximum of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1065
- C-927. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1067
- C-928. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1067
- C-929. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1069
- C-930. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1069
- C-931. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1071
- C-932. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1071
- C-933. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1073
- C-934. Minimum and maximum of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1073
- C-935. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1075

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- C-936. Minimum and maximum of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1075
- C-937. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1077
- C-938. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1077
- C-939. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1079
- C-940. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1079
- C-941. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1081
- C-942. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1081
- C-943. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1083
- C-944. Minimum and maximum of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1083
- C-945. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1085
- C-946. Minimum and maximum of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1085
- C-947. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1087

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- C-948. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1087
- C-949. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1089
- C-950. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1089
- C-951. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1091
- C-952. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1091
- C-953. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1093
- C-954. Minimum and maximum of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1093
- C-955. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1095
- C-956. Minimum and maximum of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1095
- C-957. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1097
- C-958. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1097
- C-959. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1099

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- C-960. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1099
- C-961. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1101
- C-962. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1101
- C-963. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1103
- C-964. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1103
- C-965. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1105
- C-966. Minimum and maximum of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1105
- C-967. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1107
- C-968. Minimum and maximum of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1107
- C-969. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1109
- C-970. Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1109
- C-971. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1111

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- C-972. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1111
- C-973. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1113
- C-974. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1113
- C-975. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1115
- C-976. Minimum and maximum of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1115
- C-977. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1117
- C-978. Minimum and maximum of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1117
- C-979. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1119
- C-980. Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1119
- C-981. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1121
- C-982. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1121
- C-983. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1123

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- C-984. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1123
- C-985. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1125
- C-986. Minimum and maximum of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1125
- C-987. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1127
- C-988. Minimum and maximum of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1127
- C-989. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1129
- C-990. Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1129
- C-991. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1131
- C-992. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1131
- C-993. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1133
- C-994. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1133
- C-995. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1135

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- C-996. Minimum and maximum of of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1135
- C-997. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1137
- C-998. Minimum and maximum of of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1137
- C-999. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1139
- C-1000. Minimum and maximum of of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1139
- C-1001. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1141
- C-1002. Minimum and maximum of of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1141
- C-1003. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1143
- C-1004. Minimum and maximum of of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1143
- C-1005. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1145
- C-1006. Minimum and maximum of of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1145
- C-1007. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1147

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C-1008.	Minimum and maximum of of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1147
C-1009.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1149
C-1010.	Minimum and maximum of of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1149
C-1011.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1151
C-1012.	Minimum and maximum of of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1151
C-1013.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1153
C-1014.	Minimum and maximum of of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1153
C-1015.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1155
C-1016.	Minimum and maximum of of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1155
C-1017.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1157
C-1018.	Minimum and maximum of of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1157
C-1019.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1159

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C-1020.	Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1159
C-1021.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1161
C-1022.	Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1161
C-1023.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1163
C-1024.	Minimum and maximum of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1163
C-1025.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1165
C-1026.	Minimum and maximum of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1165
C-1027.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1167
C-1028.	Minimum and maximum of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1167
C-1029.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1169
C-1030.	Minimum and maximum of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1169
C-1031.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1171

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C-1032.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1171
C-1033.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1173
C-1034.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1173
C-1035.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1175
C-1036.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1175
C-1037.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1177
C-1038.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1177
C-1039.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1179
C-1040.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1179
C-1041.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1181
C-1042.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1181
C-1043.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1183

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C-1044.	Minimum and maximum of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1183
C-1045.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1185
C-1046.	Minimum and maximum of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1185
C-1047.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1187
C-1048.	Minimum and maximum of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1187
C-1049.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1189
C-1050.	Minimum and maximum of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1189
C-1051.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1191
C-1052.	Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1191
C-1053.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1193
C-1054.	Minimum and maximum of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1193
C-1055.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1195

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C-1056.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1195
C-1057.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1197
C-1058.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1197
C-1059.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1199
C-1060.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1199
C-1061.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1201
C-1062.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1201
C-1063.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1203
C-1064.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1203
C-1065.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1205
C-1066.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1205
C-1067.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1207

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C-1068.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1207
C-1069.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1209
C-1070.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1209
C-1071.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1211
C-1072.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1211
C-1073.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1213
C-1074.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1213
C-1075.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1215
C-1076.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1215
C-1077.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1217
C-1078.	Minimum and maximum of of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1217
C-1079.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1219

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C-1080.	Minimum and maximum of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1219
C-1081.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1221
C-1082.	Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1221
C-1083.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1223
C-1084.	Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1223
C-1085.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1225
C-1086.	Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1225
C-1087.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1227
C-1088.	Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1227
C-1089.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1229
C-1090.	Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1229
C-1091.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1231

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C-1092.	Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1231
C-1093.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1233
C-1094.	Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1233
C-1095.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1235
C-1096.	Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1235
C-1097.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1237
C-1098.	Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1237
C-1099.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1239
C-1100.	Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1239
C-1101.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1241
C-1102.	Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1241
C-1103.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1243

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C-1104.	Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1243
C-1105.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1245
C-1106.	Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1245
C-1107.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1247
C-1108.	Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1247
C-1109.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1249
C-1110.	Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1249
C-1111.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1251
C-1112.	Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1251
C-1113.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1253
C-1114.	Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1253
C-1115.	Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.	C-1255

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- C-1116. Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1255
- C-1117. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1257
- C-1118. Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1257
- C-1119. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1259
- C-1120. Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1259
- C-1121. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1261
- C-1122. Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1261
- C-1123. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1263
- C-1124. Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1263
- C-1125. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1265
- C-1126. Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1265
- C-1127. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1267

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- C-1128. Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1267
- C-1129. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1269
- C-1130. Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1269
- C-1131. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1271
- C-1132. Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1271
- C-1133. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1273
- C-1134. Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1273
- C-1135. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1275
- C-1136. Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1275
- C-1137. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1277
- C-1138. Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1277
- C-1139. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m. C-1279

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C-1140. Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $\text{Fn} = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m. C-1279

Introduction

This appendix contains all the plots and tables for the simulations involving 1-DOF prescribed roll motion of Model 5613 scaled to the length 154 m. Each of Figures C–1 through C–570 contains time-history plots of the results from all codes for a single variable during one period of motion. If the code runner did not supply the data, the data vanish identically, or the data are insufficient for a single period, there is no curve for that code. The lack of data in any figure has been noted immediately below the figure. As necessary, the time that appears on the horizontal axis has been shifted so that the roll angle is of the form $\phi = \phi_a \sin \omega t$ for some amplitude ϕ_a and some frequency ω . Furthermore, the time t has been replaced by $t \bmod T_e$ where T_e is the period of the motion.

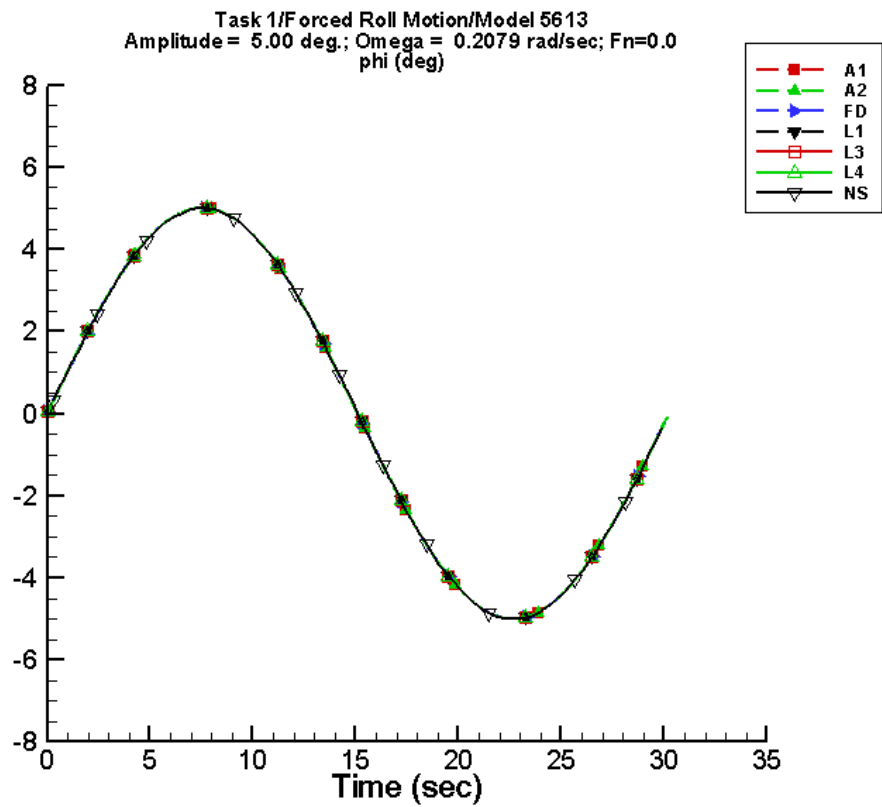
Tables C–1 through C–1140 contain information related to the results depicted in the figures. Two tables follow each figure. The first table gives estimates of the mean value and the amplitudes and phases of the first and second harmonics obtained by Fourier analysis. The second table gives the minimum and maximum of the variable plotted in the figure. The minimum and maximum of both the filtered and unfiltered variable are provided. However, the plot itself was obtained from unfiltered data unless the data were already filtered by the code runner, as is the case for the results from NFA.

Appendix M contains plots and tables for the behavior of the minimum and the maximum of each variable plotted in this appendix versus the roll amplitude ϕ_a .

The frequencies and amplitudes of the prescribed roll motions of task 1 are the same for both Models 5514 and 5613 and for both speeds corresponding to Froude numbers 0.0 and 0.3. The highest frequency for the prescribed roll motion in task 1 differs from the highest frequency for the prescribed heave and pitch motions of task 1. The frequencies and amplitudes of the prescribed roll motion are given in the main part of the report and are also here for ease of reference:

Roll Motion $\phi = \phi_a \sin(\omega t)$					
Rotation Point about VCG					
Roll Amplitudes ϕ_a					
ϕ_a (°)	5	15	30	45	65
Roll Frequencies ω					
ω_1 (rad/s)	0.2079	0.2079	0.2079	0.2079	0.2079
ω_2 (rad/s)	0.3831	0.3831	0.3831	0.3831	0.3831
ω_3 (rad/s)	0.672	0.672	0.672	0.672	0.672

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Data identically zero, insufficient, or not available from NFA.

Figure C-1. Time history of ϕ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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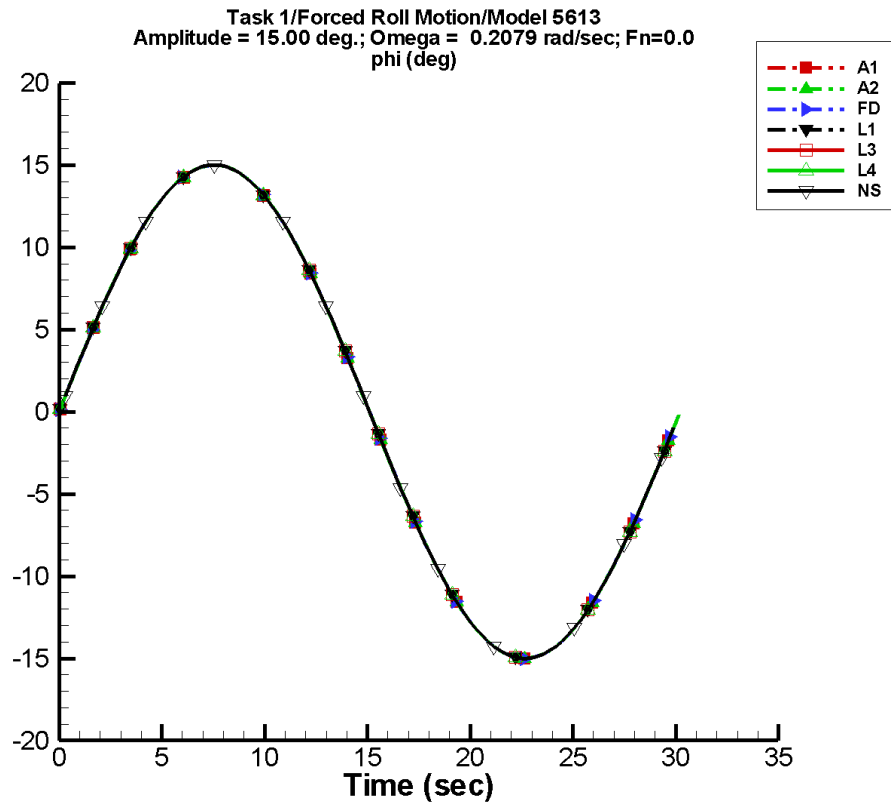
Table C–1. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.69E-06	5.00	0	5.18E-06	-21
A2	-3.69E-06	5.00	0	5.18E-06	-21
FD	1.60E-07	5.00	0	6.54E-07	31
L1	1.71E-06	5.00	0	5.76E-07	13
L3	1.71E-06	5.00	0	5.76E-07	13
L4	1.71E-06	5.00	0	5.76E-07	13
NF	—	—	—	—	—
NS	4.90E-07	5.00	0	5.45E-07	52

Table C–2. Minimum and maximum of ϕ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-5.00	5.00
A2	-5.00	5.00	-5.00	5.00
FD	-5.00	5.00	-4.99	4.99
L1	-5.00	5.00	-5.00	5.00
L3	-5.00	5.00	-5.00	5.00
L4	-5.00	5.00	-5.00	5.00
NF	—	—	—	—
NS	-5.00	5.00	-4.95	4.95

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-2. Time history of ϕ for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

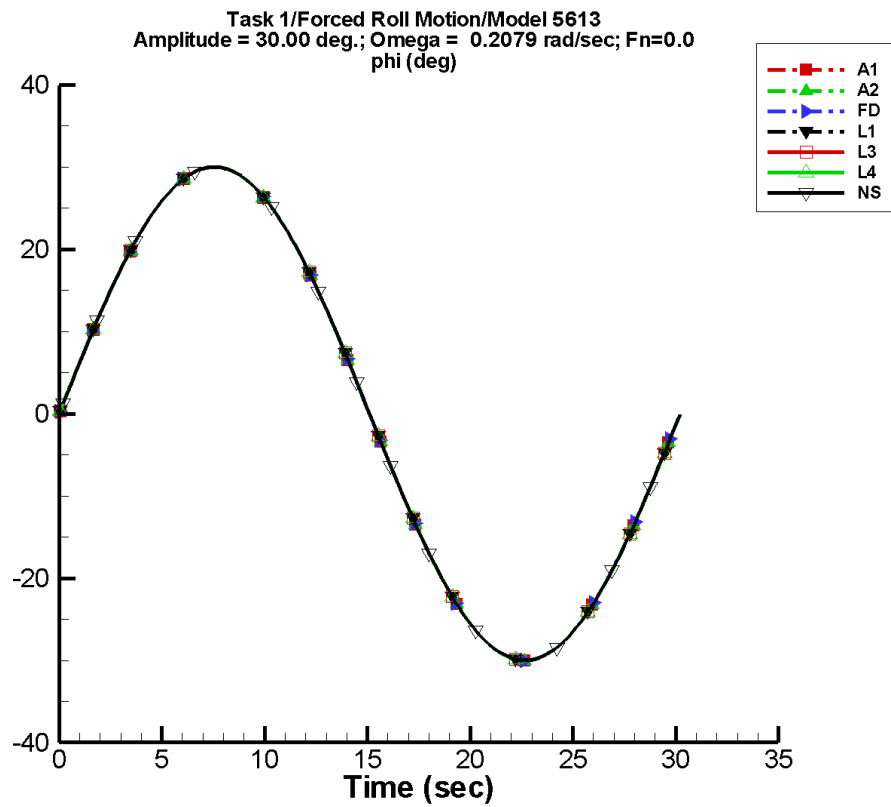
Table C–3. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.17E-05	15.0	0	1.42E-05	-20
A2	-1.17E-05	15.0	0	1.42E-05	-20
FD	-3.88E-07	15.0	0	2.68E-06	35
L1	2.64E-05	15.0	0	2.01E-06	-2
L3	2.64E-05	15.0	0	2.01E-06	-2
L4	2.64E-05	15.0	0	2.01E-06	-2
NF	—	—	—	—	—
NS	1.98E-06	15.0	0	9.86E-07	-14

Table C–4. Minimum and maximum of ϕ for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-15.0	15.0	-15.0	15.0
A2	-15.0	15.0	-15.0	15.0
FD	-15.0	15.0	-15.0	15.0
L1	-15.0	15.0	-15.0	15.0
L3	-15.0	15.0	-15.0	15.0
L4	-15.0	15.0	-15.0	15.0
NF	—	—	—	—
NS	-15.0	15.0	-14.9	14.9

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Data identically zero, insufficient, or not available from NFA.

Figure C-3. Time history of ϕ for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

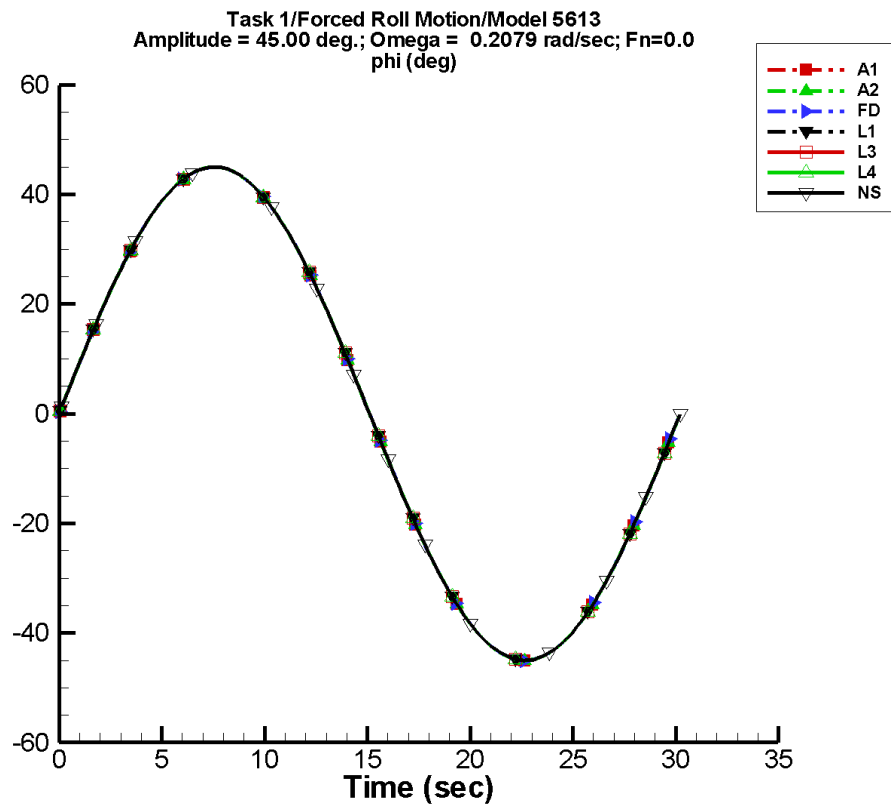
Table C–5. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-2.30E-05	30.0	0	2.74E-05	-18
A2	-2.30E-05	30.0	0	2.74E-05	-18
FD	-2.43E-06	30.0	0	4.51E-06	64
L1	5.44E-05	30.0	0	6.24E-06	-91
L3	5.44E-05	30.0	0	6.24E-06	-91
L4	5.44E-05	30.0	0	6.24E-06	-91
NF	—	—	—	—	—
NS	4.50E-06	30.0	0	1.04E-06	-16

Table C–6. Minimum and maximum of ϕ for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-30.0	30.0	-30.0	30.0
A2	-30.0	30.0	-30.0	30.0
FD	-30.0	30.0	-30.0	30.0
L1	-30.0	30.0	-30.0	30.0
L3	-30.0	30.0	-30.0	30.0
L4	-30.0	30.0	-30.0	30.0
NF	—	—	—	—
NS	-30.0	30.0	-29.9	29.9

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Data identically zero, insufficient, or not available from NFA.

Figure C-4. Time history of ϕ for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

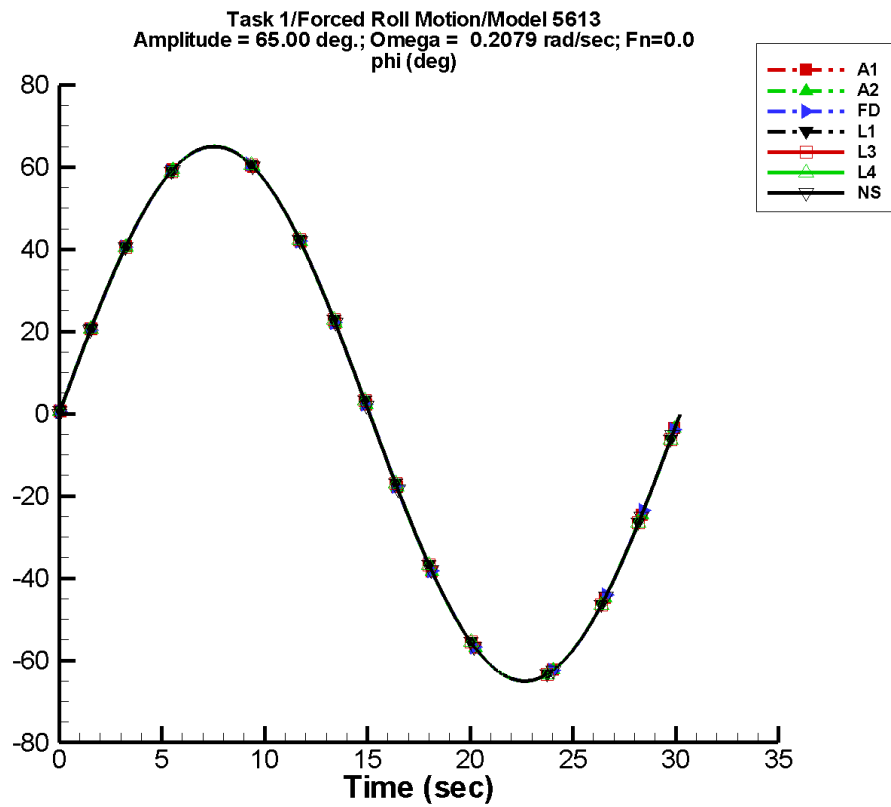
Table C–7. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.89E-05	45.0	0	4.73E-05	-21
A2	-3.89E-05	45.0	0	4.73E-05	-21
FD	-4.26E-09	45.0	0	4.55E-06	72
L1	6.02E-06	45.0	0	9.60E-06	-114
L3	6.02E-06	45.0	0	9.60E-06	-114
L4	6.02E-06	45.0	0	9.60E-06	-114
NF	—	—	—	—	—
NS	-4.90E-06	45.0	0	3.83E-06	-42

Table C–8. Minimum and maximum of ϕ for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-45.0	45.0	-45.0	45.0
A2	-45.0	45.0	-45.0	45.0
FD	-45.0	45.0	-44.9	44.9
L1	-45.0	45.0	-45.0	45.0
L3	-45.0	45.0	-45.0	45.0
L4	-45.0	45.0	-45.0	45.0
NF	—	—	—	—
NS	-45.0	45.0	-44.9	44.9

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Data identically zero, insufficient, or not available from NFA.

Figure C-5. Time history of ϕ for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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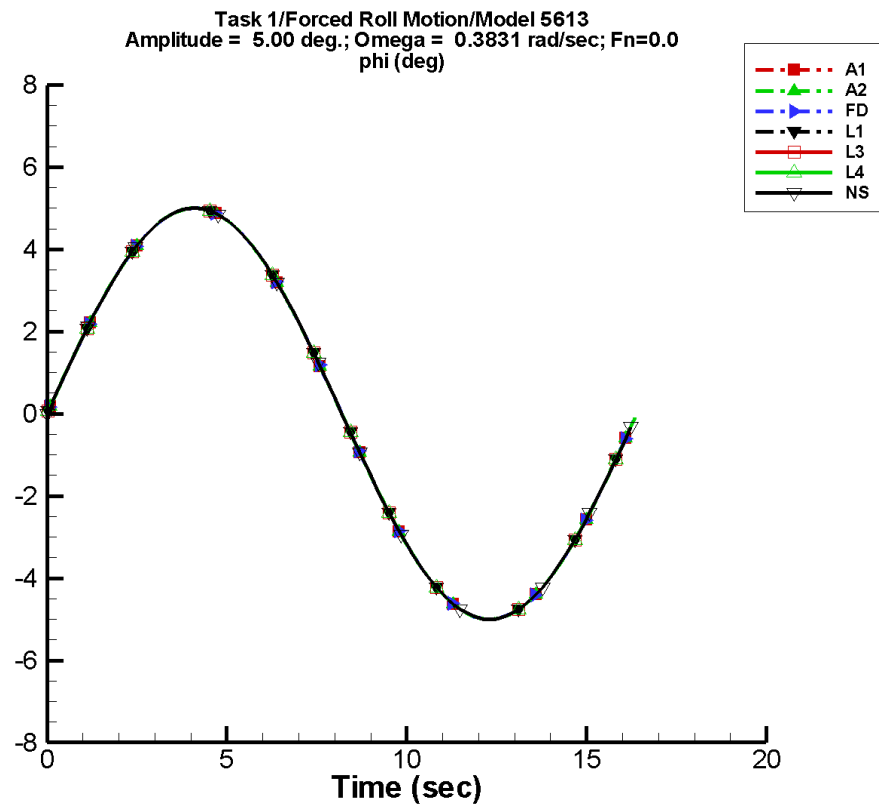
Table C–9. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.87E-05	65.0	0	7.22E-05	-18
A2	-4.87E-05	65.0	0	7.22E-05	-18
FD	-8.71E-06	65.0	0	1.27E-05	56
L1	7.76E-05	65.0	0	1.60E-05	35
L3	7.76E-05	65.0	0	1.60E-05	35
L4	7.76E-05	65.0	0	1.60E-05	35
NF	—	—	—	—	—
NS	6.33E-06	65.0	0	1.04E-05	-134

Table C–10. Minimum and maximum of ϕ for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-65.0	65.0	-64.9	65.0
A2	-65.0	65.0	-64.9	65.0
FD	-65.0	65.0	-64.9	64.9
L1	-65.0	65.0	-65.0	65.0
L3	-65.0	65.0	-65.0	65.0
L4	-65.0	65.0	-65.0	65.0
NF	—	—	—	—
NS	-65.0	65.0	-64.9	64.9

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Data identically zero, insufficient, or not available from NFA.

Figure C-6. Time history of ϕ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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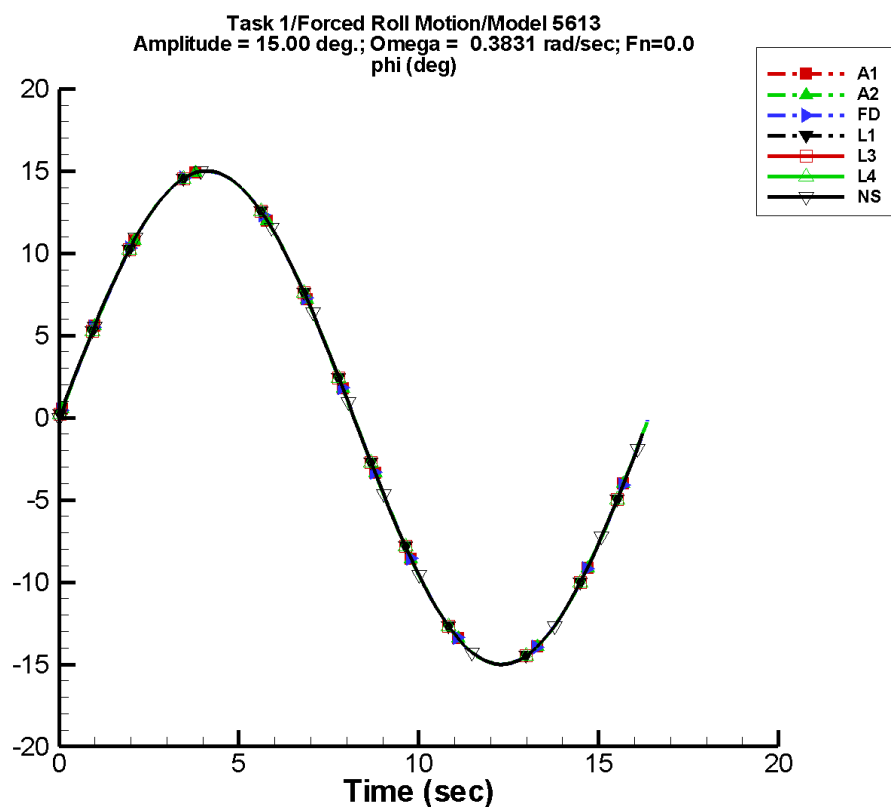
Table C–11. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-6.11E-08	5.00	0	4.98E-07	-131
A2	-6.11E-08	5.00	0	4.98E-07	-131
FD	1.50E-07	5.00	0	6.30E-07	98
L1	2.05E-05	5.00	0	1.08E-05	111
L3	2.05E-05	5.00	0	1.08E-05	111
L4	2.05E-05	5.00	0	1.08E-05	111
NF	—	—	—	—	—
NS	3.61E-08	5.00	0	5.35E-07	-26

Table C–12. Minimum and maximum of ϕ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-4.98	5.02
A2	-5.00	5.00	-4.98	5.02
FD	-5.00	5.00	-4.98	4.98
L1	-5.00	5.00	-4.99	4.99
L3	-5.00	5.00	-4.99	4.99
L4	-5.00	5.00	-4.99	4.99
NF	—	—	—	—
NS	-5.00	5.00	-4.95	4.95

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Data identically zero, insufficient, or not available from NFA.

Figure C-7. Time history of ϕ for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

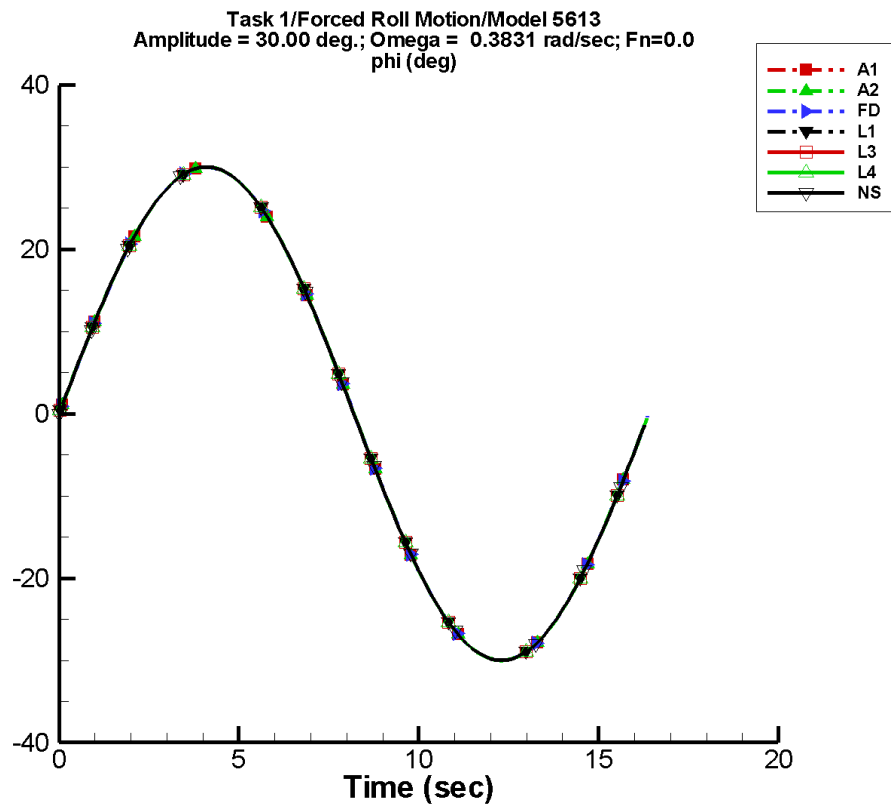
Table C–13. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	1.18E-06	15.0	0	9.67E-07	124
A2	1.18E-06	15.0	0	9.67E-07	124
FD	2.43E-06	15.0	0	4.86E-07	-20
L1	4.79E-05	15.0	0	3.19E-05	110
L3	4.79E-05	15.0	0	3.19E-05	110
L4	4.79E-05	15.0	0	3.19E-05	110
NF	—	—	—	—	—
NS	5.14E-07	15.0	0	1.79E-06	-13

Table C–14. Minimum and maximum of ϕ for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-15.0	15.0	-14.9	15.0
A2	-15.0	15.0	-14.9	15.0
FD	-15.0	15.0	-14.9	14.9
L1	-15.0	15.0	-15.0	15.0
L3	-15.0	15.0	-15.0	15.0
L4	-15.0	15.0	-15.0	15.0
NF	—	—	—	—
NS	-15.0	15.0	-14.9	14.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-8. Time history of ϕ for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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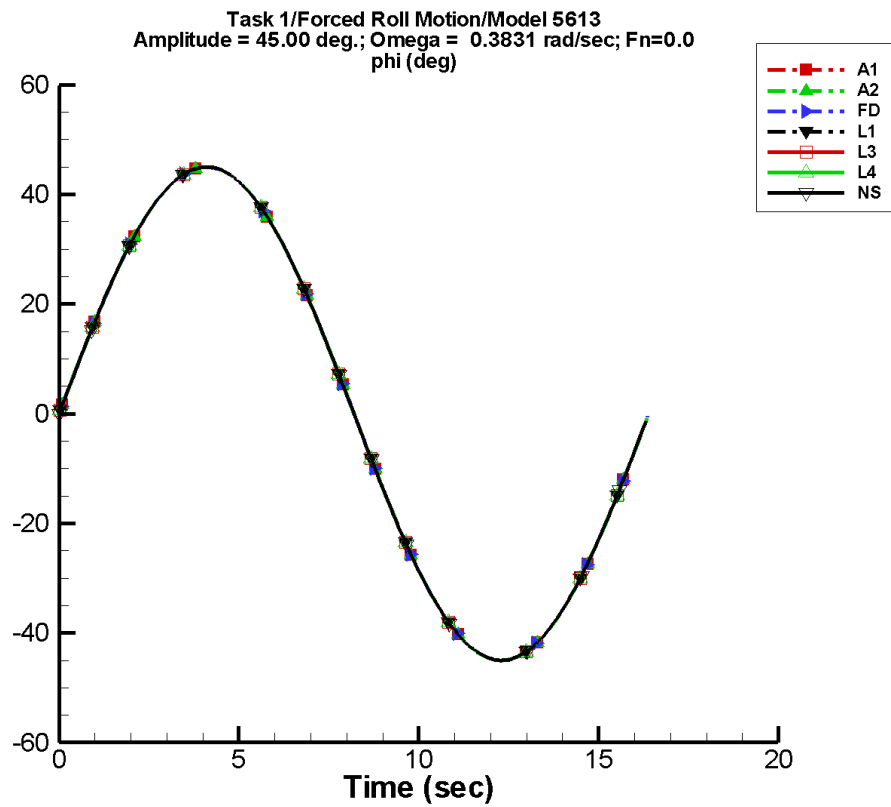
Table C–15. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	1.43E-06	30.0	0	2.79E-06	99
A2	1.43E-06	30.0	0	2.79E-06	99
FD	4.46E-06	30.0	0	1.45E-06	167
L1	9.32E-05	30.0	0	6.19E-05	109
L3	9.32E-05	30.0	0	6.19E-05	109
L4	9.32E-05	30.0	0	6.19E-05	109
NF	—	—	—	—	—
NS	7.65E-08	30.0	0	2.25E-06	-119

Table C–16. Minimum and maximum of ϕ for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-30.0	30.0	-29.9	30.1
A2	-30.0	30.0	-29.9	30.1
FD	-30.0	30.0	-29.9	29.9
L1	-30.0	30.0	-30.0	30.0
L3	-30.0	30.0	-30.0	30.0
L4	-30.0	30.0	-30.0	30.0
NF	—	—	—	—
NS	-30.0	30.0	-29.9	29.9

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Data identically zero, insufficient, or not available from NFA.

Figure C-9. Time history of ϕ for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

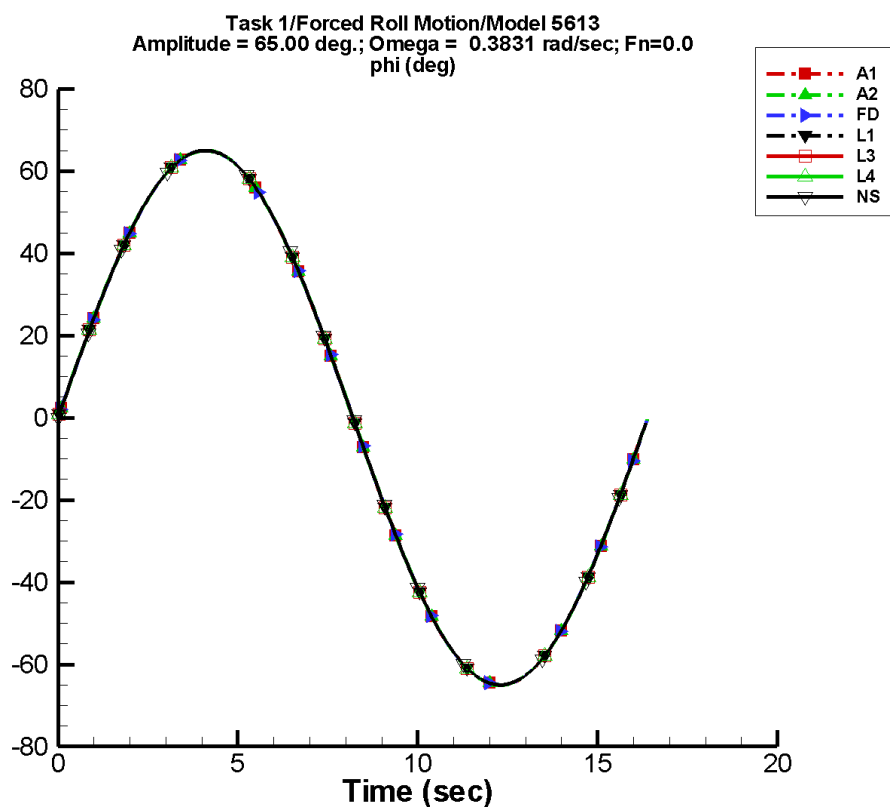
Table C–17. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.38E-06	45.0	0	5.87E-06	-49
A2	-3.38E-06	45.0	0	5.87E-06	-49
FD	3.83E-06	45.0	0	6.29E-06	150
L1	1.61E-04	45.0	0	8.79E-05	107
L3	1.61E-04	45.0	0	8.79E-05	107
L4	1.61E-04	45.0	0	8.79E-05	107
NF	—	—	—	—	—
NS	1.61E-07	45.0	0	2.52E-05	-174

Table C–18. Minimum and maximum of ϕ for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-45.0	45.0	-44.8	45.1
A2	-45.0	45.0	-44.8	45.1
FD	-45.0	45.0	-44.8	44.8
L1	-45.0	45.0	-44.9	44.9
L3	-45.0	45.0	-44.9	44.9
L4	-45.0	45.0	-44.9	44.9
NF	—	—	—	—
NS	-45.0	45.0	-44.9	44.9

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Data identically zero, insufficient, or not available from NFA.

Figure C-10. Time history of ϕ for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

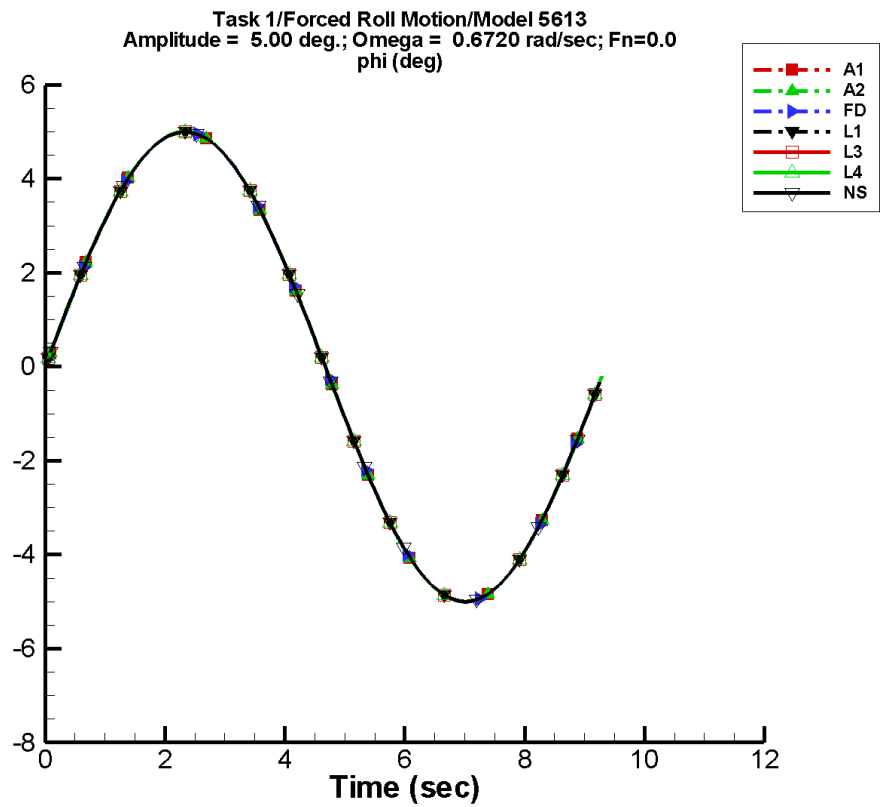
Table C–19. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	9.03E-06	65.0	0	5.40E-06	-51
A2	-4.27E-05	65.0	0	6.73E-05	-118
FD	9.18E-06	65.0	0	9.68E-06	98
L1	1.94E-04	65.0	0	1.32E-04	108
L3	1.94E-04	65.0	0	1.32E-04	108
L4	1.94E-04	65.0	0	1.32E-04	108
NF	—	—	—	—	—
NS	5.38E-06	65.0	0	4.01E-06	-9

Table C–20. Minimum and maximum of ϕ for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-65.0	65.0	-64.8	65.2
A2	-65.0	65.0	-64.8	64.8
FD	-65.0	65.0	-64.8	64.8
L1	-65.0	65.0	-64.9	64.9
L3	-65.0	65.0	-64.9	64.9
L4	-65.0	65.0	-64.9	64.9
NF	—	—	—	—
NS	-65.0	65.0	-64.9	64.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-11. Time history of ϕ for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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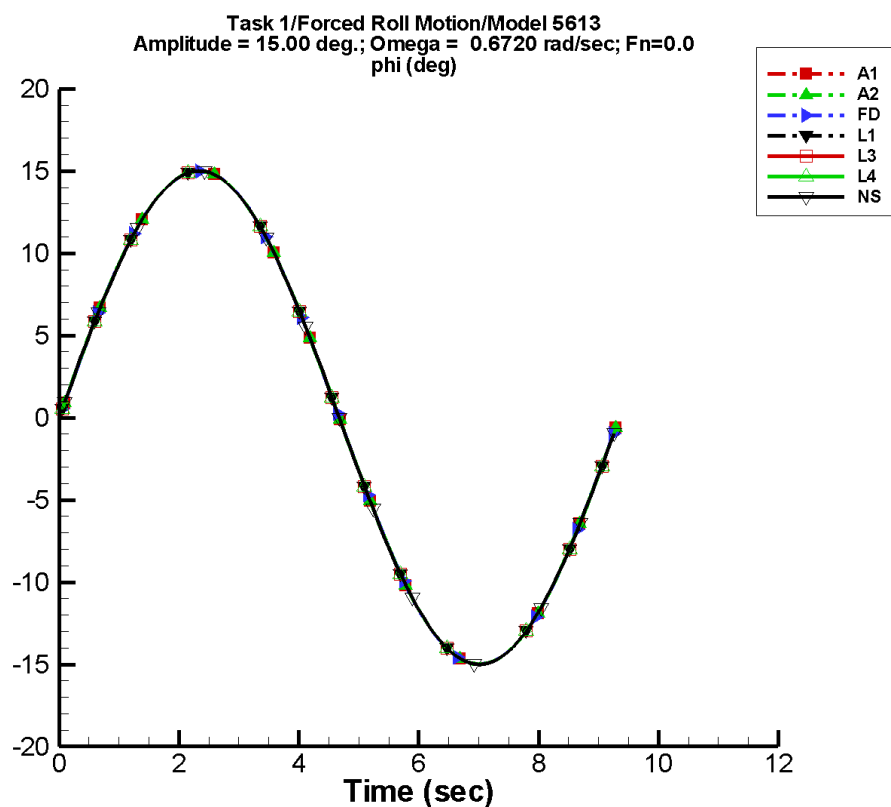
Table C–21. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.92E-06	5.00	0	8.21E-06	-17
A2	-4.92E-06	5.00	0	8.21E-06	-17
FD	-6.65E-06	5.00	0	1.07E-05	-143
L1	7.30E-05	5.00	0	7.19E-07	-112
L3	7.30E-05	5.00	0	7.19E-07	-112
L4	7.30E-05	5.00	0	7.19E-07	-112
NF	—	—	—	—	—
NS	-2.79E-07	5.00	0	5.18E-07	48

Table C–22. Minimum and maximum of ϕ for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-4.94	4.94
A2	-5.00	5.00	-4.94	4.94
FD	-5.00	5.00	-4.97	4.94
L1	-5.00	5.00	-4.98	4.98
L3	-5.00	5.00	-4.98	4.98
L4	-5.00	5.00	-4.98	4.98
NF	—	—	—	—
NS	-5.00	5.00	-4.95	4.95

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-12. Time history of ϕ for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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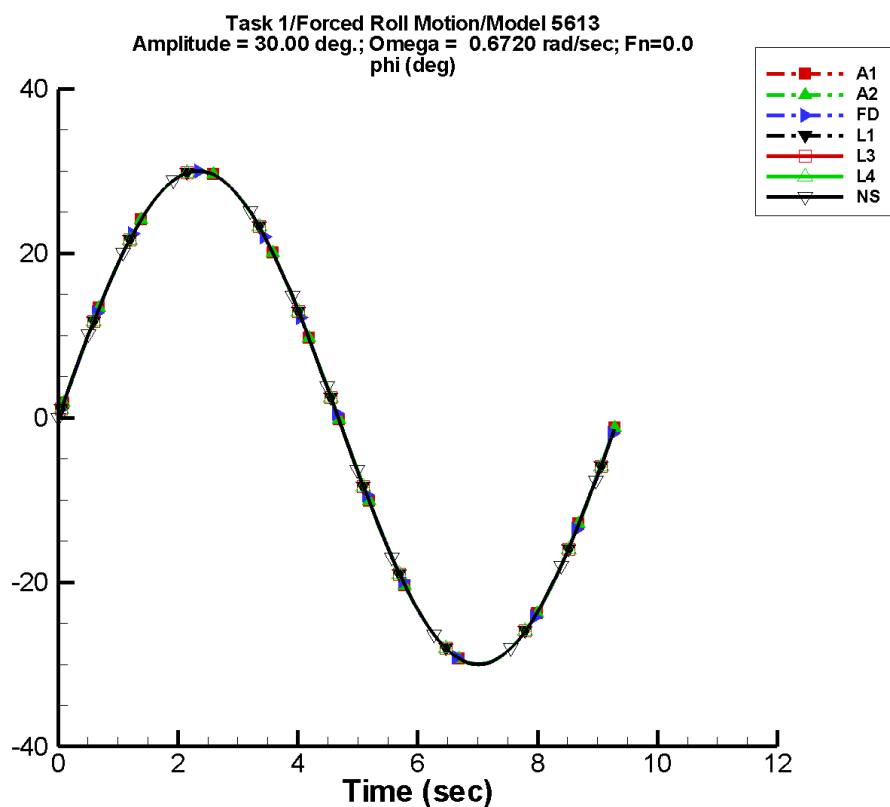
Table C–23. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.51E-05	15.0	0	2.53E-05	-16
A2	-1.51E-05	15.0	0	2.53E-05	-16
FD	-1.95E-05	15.0	0	3.21E-05	-142
L1	2.31E-04	15.0	0	9.40E-07	-129
L3	2.31E-04	15.0	0	9.40E-07	-129
L4	2.31E-04	15.0	0	9.40E-07	-129
NF	—	—	—	—	—
NS	-8.78E-07	15.0	0	1.34E-06	73

Table C–24. Minimum and maximum of ϕ for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-15.0	15.0	-14.8	14.8
A2	-15.0	15.0	-14.8	14.8
FD	-15.0	15.0	-14.9	14.8
L1	-15.0	15.0	-14.9	14.9
L3	-15.0	15.0	-14.9	14.9
L4	-15.0	15.0	-14.9	14.9
NF	—	—	—	—
NS	-15.0	15.0	-14.9	14.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-13. Time history of ϕ for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

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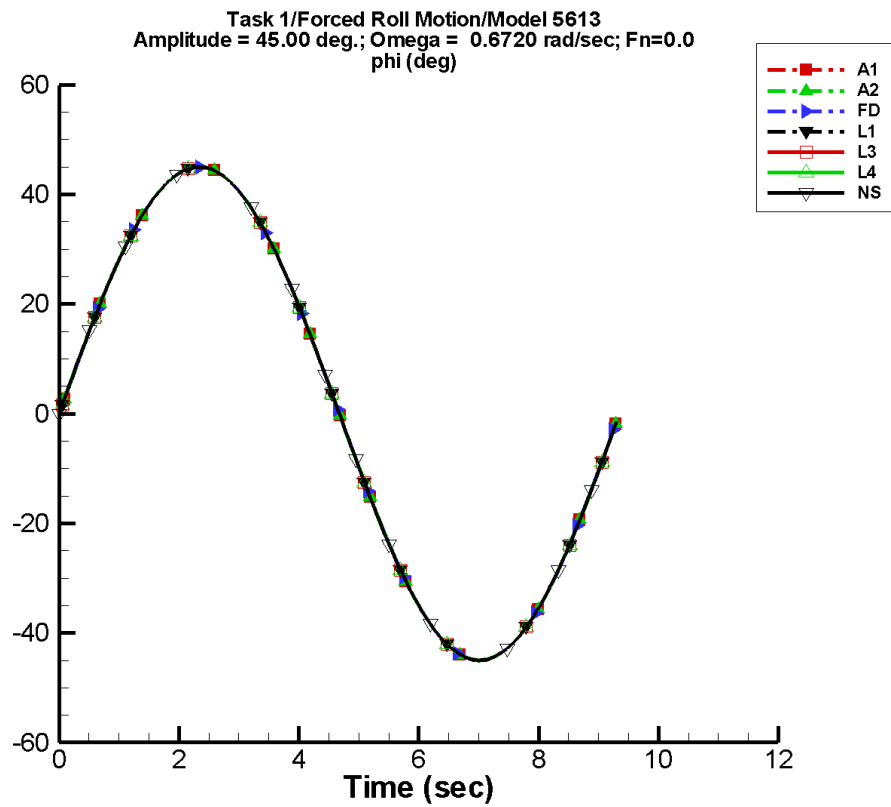
Table C–25. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-2.94E-05	30.0	0	5.17E-05	-18
A2	-2.94E-05	30.0	0	5.17E-05	-18
FD	-3.96E-05	30.0	0	6.41E-05	-142
L1	4.66E-04	30.0	0	5.70E-06	-63
L3	4.66E-04	30.0	0	5.70E-06	-63
L4	4.66E-04	30.0	0	5.70E-06	-63
NF	—	—	—	—	—
NS	-1.39E-06	30.0	0	3.04E-06	-99

Table C–26. Minimum and maximum of ϕ for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-30.0	30.0	-29.7	29.6
A2	-30.0	30.0	-29.7	29.6
FD	-30.0	30.0	-29.8	29.7
L1	-30.0	30.0	-29.9	29.9
L3	-30.0	30.0	-29.9	29.9
L4	-30.0	30.0	-29.9	29.9
NF	—	—	—	—
NS	-30.0	30.0	-29.9	29.9

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Data identically zero, insufficient, or not available from NFA.

Figure C-14. Time history of ϕ for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

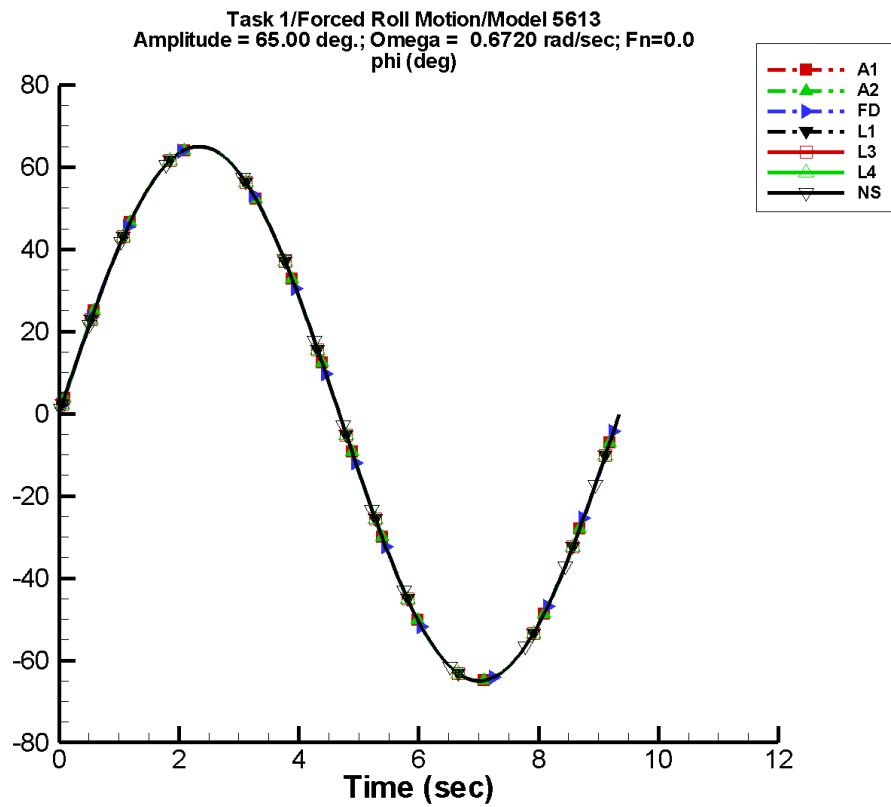
Table C–27. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.72E-05	45.0	0	7.50E-05	-17
A2	-4.72E-05	45.0	0	7.50E-05	-17
FD	-5.69E-05	45.0	0	9.63E-05	-142
L1	6.94E-04	45.0	0	1.86E-06	-106
L3	6.94E-04	45.0	0	1.86E-06	-106
L4	6.94E-04	45.0	0	1.86E-06	-106
NF	—	—	—	—	—
NS	-1.04E-06	45.0	0	1.55E-06	151

Table C–28. Minimum and maximum of ϕ for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-45.0	45.0	-44.5	44.5
A2	-45.0	45.0	-44.5	44.5
FD	-45.0	45.0	-44.8	44.5
L1	-45.0	45.0	-44.8	44.8
L3	-45.0	45.0	-44.8	44.8
L4	-45.0	45.0	-44.8	44.8
NF	—	—	—	—
NS	-45.0	45.0	-44.9	44.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-15. Time history of ϕ for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

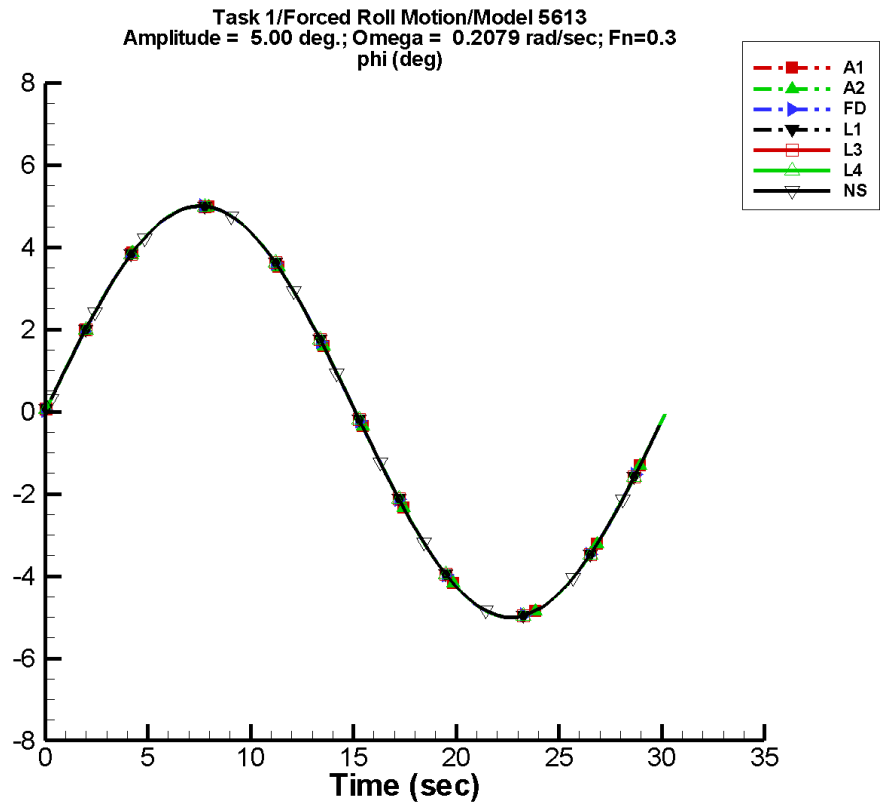
Table C–29. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-6.81E-05	65.0	0	1.09E-04	-17
A2	-6.81E-05	65.0	0	1.09E-04	-17
FD	-8.29E-05	65.0	0	1.37E-04	-144
L1	1.03E-03	65.0	0	1.34E-05	141
L3	1.03E-03	65.0	0	1.34E-05	141
L4	1.03E-03	65.0	0	1.34E-05	141
NF	—	—	—	—	—
NS	4.61E-07	65.0	0	2.35E-06	37

Table C–30. Minimum and maximum of ϕ for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-65.0	65.0	-64.2	64.2
A2	-65.0	65.0	-64.2	64.2
FD	-65.0	65.0	-64.7	64.3
L1	-65.0	65.0	-64.7	64.7
L3	-65.0	65.0	-64.7	64.7
L4	-65.0	65.0	-64.7	64.7
NF	—	—	—	—
NS	-65.0	65.0	-64.9	64.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-16. Time history of ϕ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

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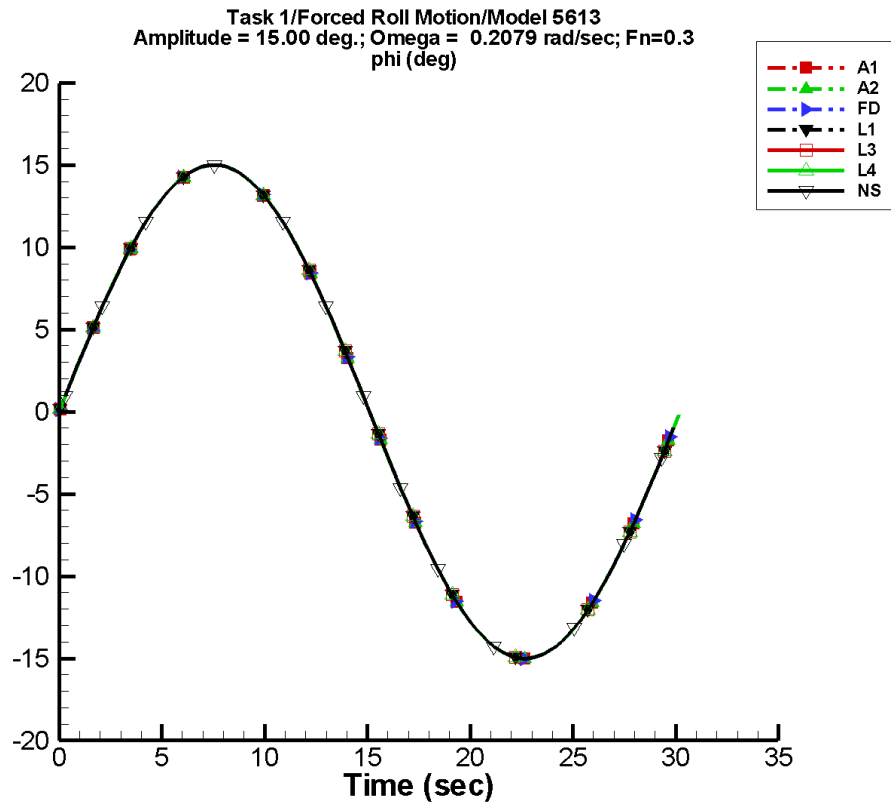
Table C–31. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.69E-06	5.00	0	5.18E-06	-21
A2	-3.69E-06	5.00	0	5.18E-06	-21
FD	1.60E-07	5.00	0	6.54E-07	31
L1	1.71E-06	5.00	0	5.76E-07	13
L3	1.71E-06	5.00	0	5.76E-07	13
L4	1.71E-06	5.00	0	5.76E-07	13
NF	—	—	—	—	—
NS	4.90E-07	5.00	0	5.45E-07	52

Table C–32. Minimum and maximum of ϕ for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-5.00	5.00
A2	-5.00	5.00	-5.00	5.00
FD	-5.00	5.00	-4.99	4.99
L1	-5.00	5.00	-5.00	5.00
L3	-5.00	5.00	-5.00	5.00
L4	-5.00	5.00	-5.00	5.00
NF	—	—	—	—
NS	-5.00	5.00	-4.95	4.95

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Data identically zero, insufficient, or not available from NFA.

Figure C-17. Time history of ϕ for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

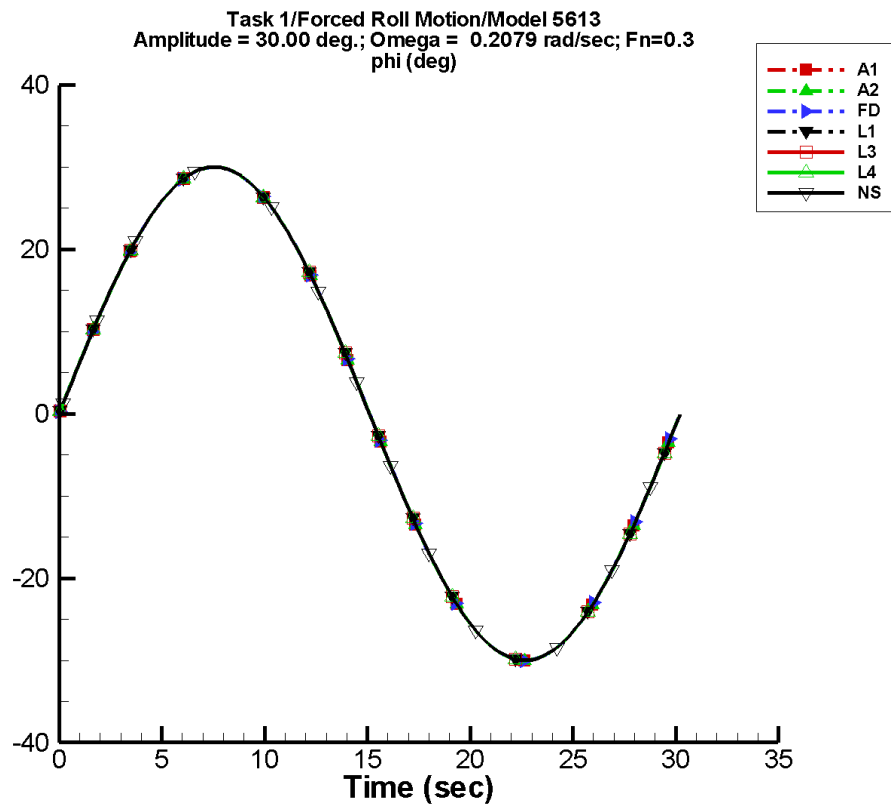
Table C–33. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.17E-05	15.0	0	1.42E-05	-20
A2	-1.17E-05	15.0	0	1.42E-05	-20
FD	-3.88E-07	15.0	0	2.68E-06	35
L1	2.64E-05	15.0	0	2.01E-06	-2
L3	2.64E-05	15.0	0	2.01E-06	-2
L4	2.64E-05	15.0	0	2.01E-06	-2
NF	—	—	—	—	—
NS	1.98E-06	15.0	0	9.86E-07	-14

Table C–34. Minimum and maximum of ϕ for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-15.0	15.0	-15.0	15.0
A2	-15.0	15.0	-15.0	15.0
FD	-15.0	15.0	-15.0	15.0
L1	-15.0	15.0	-15.0	15.0
L3	-15.0	15.0	-15.0	15.0
L4	-15.0	15.0	-15.0	15.0
NF	—	—	—	—
NS	-15.0	15.0	-14.9	14.9

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Data identically zero, insufficient, or not available from NFA.

Figure C-18. Time history of ϕ for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

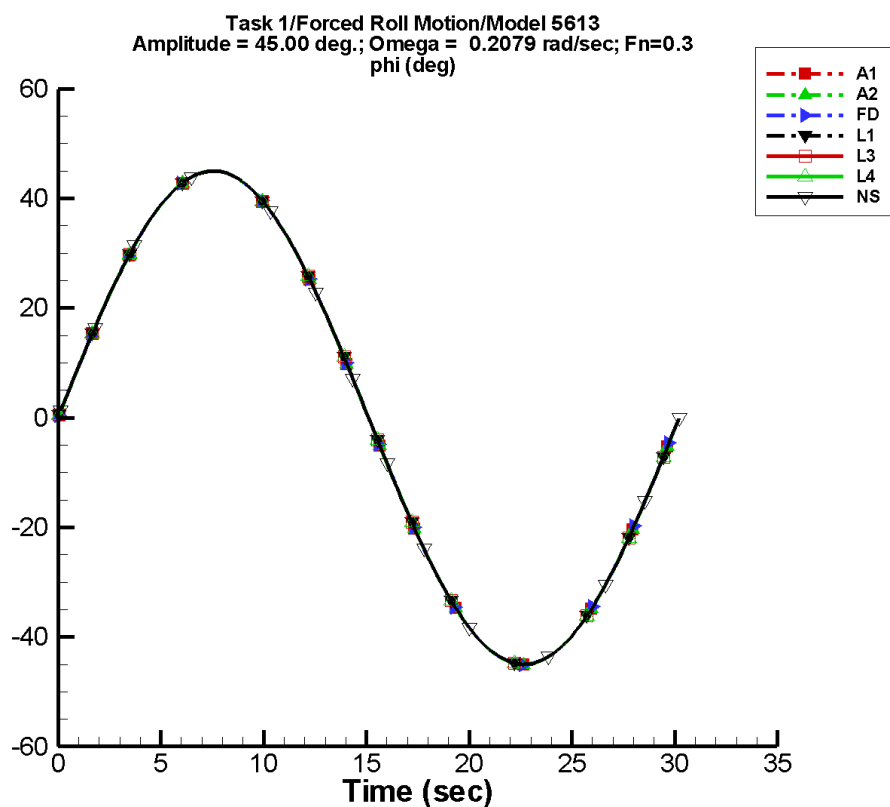
Table C–35. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-2.30E-05	30.0	0	2.74E-05	-18
A2	-2.30E-05	30.0	0	2.74E-05	-18
FD	-2.43E-06	30.0	0	4.51E-06	64
L1	5.44E-05	30.0	0	6.24E-06	-91
L3	5.44E-05	30.0	0	6.24E-06	-91
L4	5.44E-05	30.0	0	6.24E-06	-91
NF	—	—	—	—	—
NS	4.50E-06	30.0	0	1.04E-06	-16

Table C–36. Minimum and maximum of ϕ for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-30.0	30.0	-30.0	30.0
A2	-30.0	30.0	-30.0	30.0
FD	-30.0	30.0	-30.0	30.0
L1	-30.0	30.0	-30.0	30.0
L3	-30.0	30.0	-30.0	30.0
L4	-30.0	30.0	-30.0	30.0
NF	—	—	—	—
NS	-30.0	30.0	-29.9	29.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-19. Time history of ϕ for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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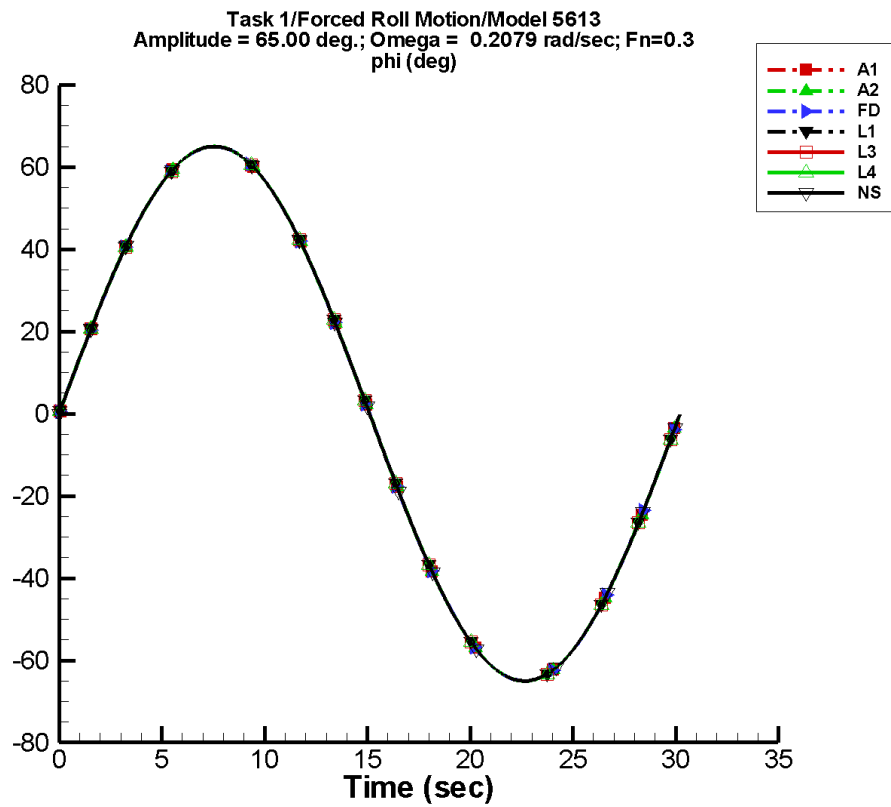
Table C–37. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.89E-05	45.0	0	4.73E-05	-21
A2	-3.89E-05	45.0	0	4.73E-05	-21
FD	-4.26E-09	45.0	0	4.55E-06	72
L1	6.02E-06	45.0	0	9.60E-06	-114
L3	6.02E-06	45.0	0	9.60E-06	-114
L4	6.02E-06	45.0	0	9.60E-06	-114
NF	—	—	—	—	—
NS	-4.90E-06	45.0	0	3.83E-06	-42

Table C–38. Minimum and maximum of ϕ for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-45.0	45.0	-45.0	45.0
A2	-45.0	45.0	-45.0	45.0
FD	-45.0	45.0	-44.9	44.9
L1	-45.0	45.0	-45.0	45.0
L3	-45.0	45.0	-45.0	45.0
L4	-45.0	45.0	-45.0	45.0
NF	—	—	—	—
NS	-45.0	45.0	-44.9	44.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-20. Time history of ϕ for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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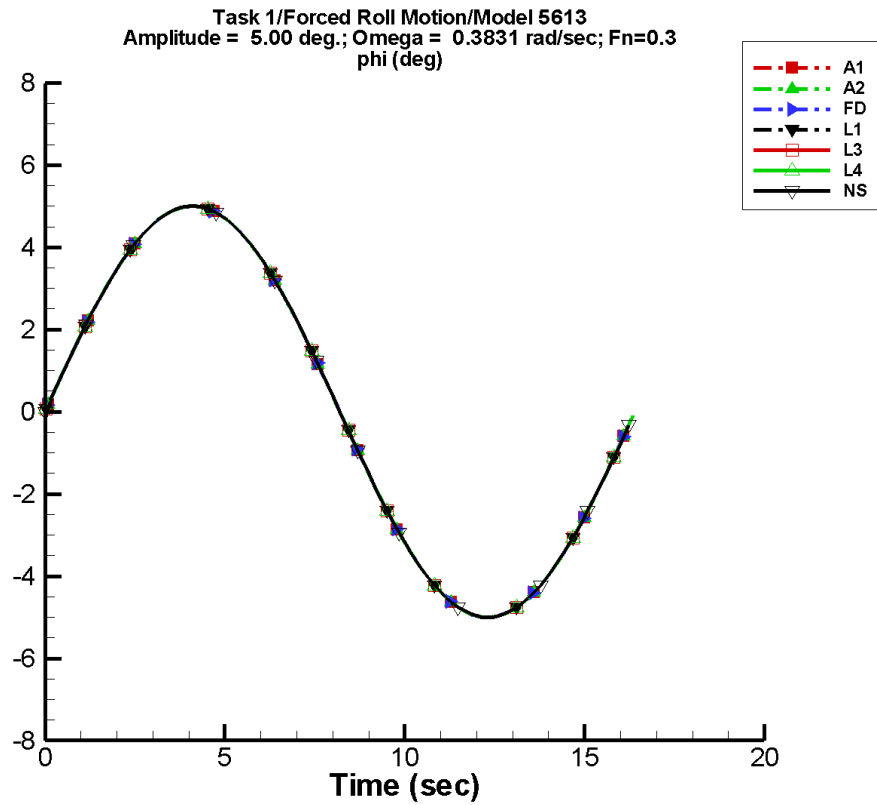
Table C–39. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.87E-05	65.0	0	7.22E-05	-18
A2	-4.87E-05	65.0	0	7.22E-05	-18
FD	-8.71E-06	65.0	0	1.27E-05	56
L1	7.76E-05	65.0	0	1.60E-05	35
L3	7.76E-05	65.0	0	1.60E-05	35
L4	7.76E-05	65.0	0	1.60E-05	35
NF	—	—	—	—	—
NS	-3.48E-06	65.0	0	4.58E-06	-169

Table C–40. Minimum and maximum of ϕ for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-65.0	65.0	-64.9	65.0
A2	-65.0	65.0	-64.9	65.0
FD	-65.0	65.0	-64.9	64.9
L1	-65.0	65.0	-65.0	65.0
L3	-65.0	65.0	-65.0	65.0
L4	-65.0	65.0	-65.0	65.0
NF	—	—	—	—
NS	-65.0	65.0	-64.9	64.9

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Data identically zero, insufficient, or not available from NFA.

Figure C-21. Time history of ϕ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

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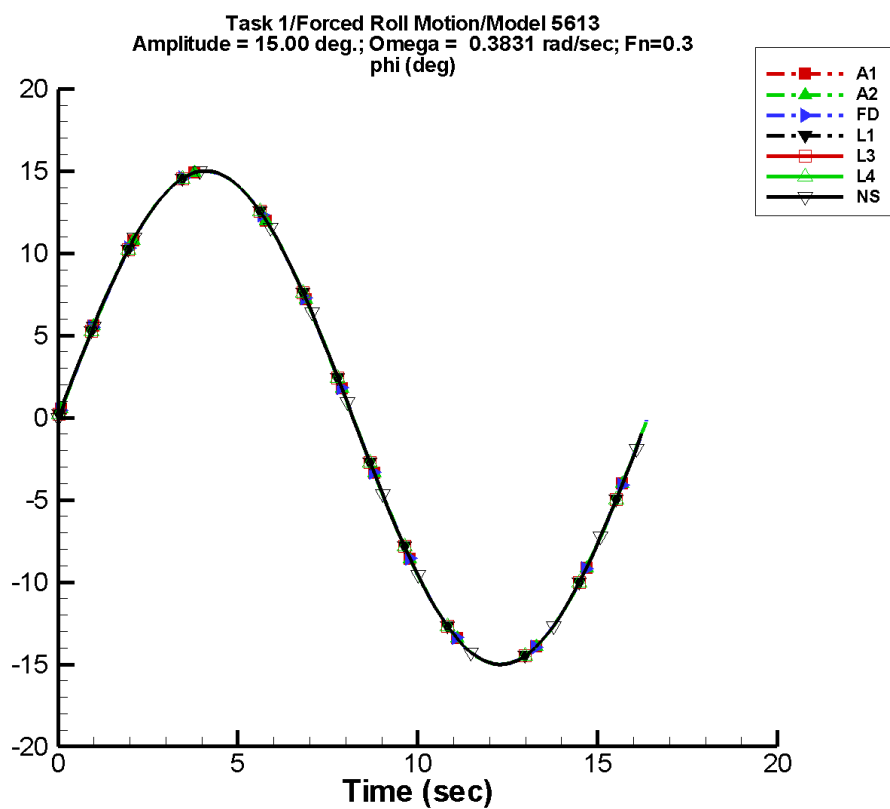
Table C–41. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-6.11E-08	5.00	0	4.98E-07	-131
A2	-6.11E-08	5.00	0	4.98E-07	-131
FD	1.50E-07	5.00	0	6.30E-07	98
L1	2.05E-05	5.00	0	1.08E-05	111
L3	2.05E-05	5.00	0	1.08E-05	111
L4	2.05E-05	5.00	0	1.08E-05	111
NF	—	—	—	—	—
NS	3.61E-08	5.00	0	5.35E-07	-26

Table C–42. Minimum and maximum of ϕ for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-4.98	5.02
A2	-5.00	5.00	-4.98	5.02
FD	-5.00	5.00	-4.98	4.98
L1	-5.00	5.00	-4.99	4.99
L3	-5.00	5.00	-4.99	4.99
L4	-5.00	5.00	-4.99	4.99
NF	—	—	—	—
NS	-5.00	5.00	-4.95	4.95

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-22. Time history of ϕ for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–43. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	1.18E-06	15.0	0	9.67E-07	124
A2	1.18E-06	15.0	0	9.67E-07	124
FD	2.43E-06	15.0	0	4.86E-07	-20
L1	4.79E-05	15.0	0	3.19E-05	110
L3	4.79E-05	15.0	0	3.19E-05	110
L4	4.79E-05	15.0	0	3.19E-05	110
NF	—	—	—	—	—
NS	5.14E-07	15.0	0	1.79E-06	-13

Table C–44. Minimum and maximum of ϕ for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-15.0	15.0	-14.9	15.0
A2	-15.0	15.0	-14.9	15.0
FD	-15.0	15.0	-14.9	14.9
L1	-15.0	15.0	-15.0	15.0
L3	-15.0	15.0	-15.0	15.0
L4	-15.0	15.0	-15.0	15.0
NF	—	—	—	—
NS	-15.0	15.0	-14.9	14.9

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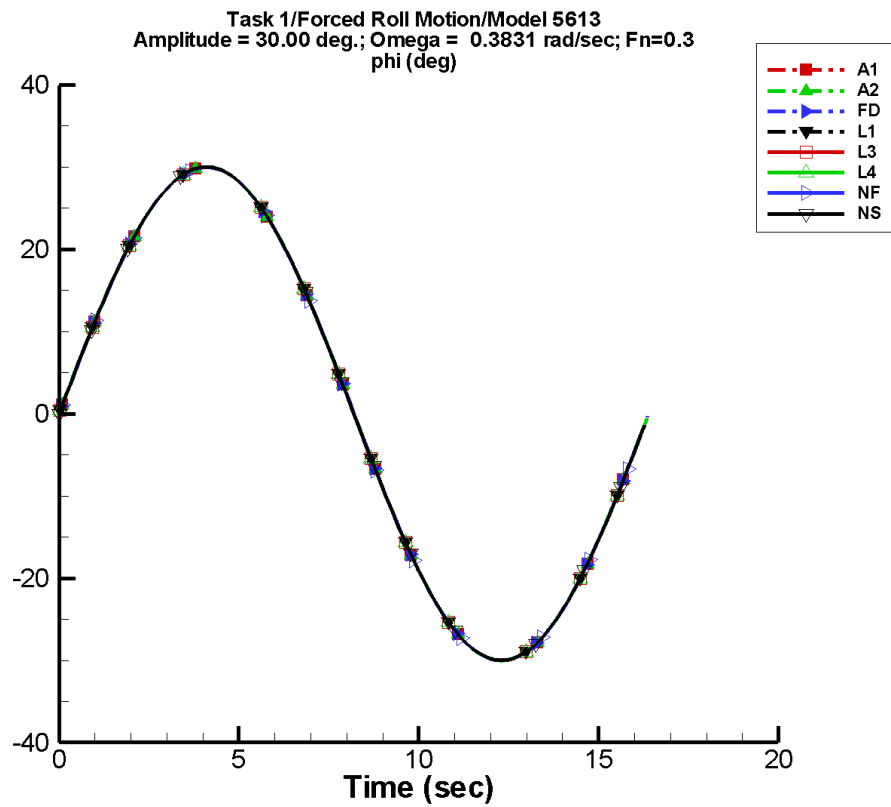


Figure C-23. Time history of ϕ for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

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Table C–45. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	1.43E-06	30.0	0	2.79E-06	99
A2	1.43E-06	30.0	0	2.79E-06	99
FD	4.46E-06	30.0	0	1.45E-06	167
L1	9.32E-05	30.0	0	6.19E-05	109
L3	9.32E-05	30.0	0	6.19E-05	109
L4	9.32E-05	30.0	0	6.19E-05	109
NF	-0.218	30.0	-15	0.308	-42
NS	7.65E-08	30.0	0	2.25E-06	-119

Table C–46. Minimum and maximum of ϕ for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-30.0	30.0	-29.9	30.1
A2	-30.0	30.0	-29.9	30.1
FD	-30.0	30.0	-29.9	29.9
L1	-30.0	30.0	-30.0	30.0
L3	-30.0	30.0	-30.0	30.0
L4	-30.0	30.0	-30.0	30.0
NF	-30.0	30.0	-29.8	29.8
NS	-30.0	30.0	-29.9	29.9

TASK 1/ROLL MOTION/MODEL 5613

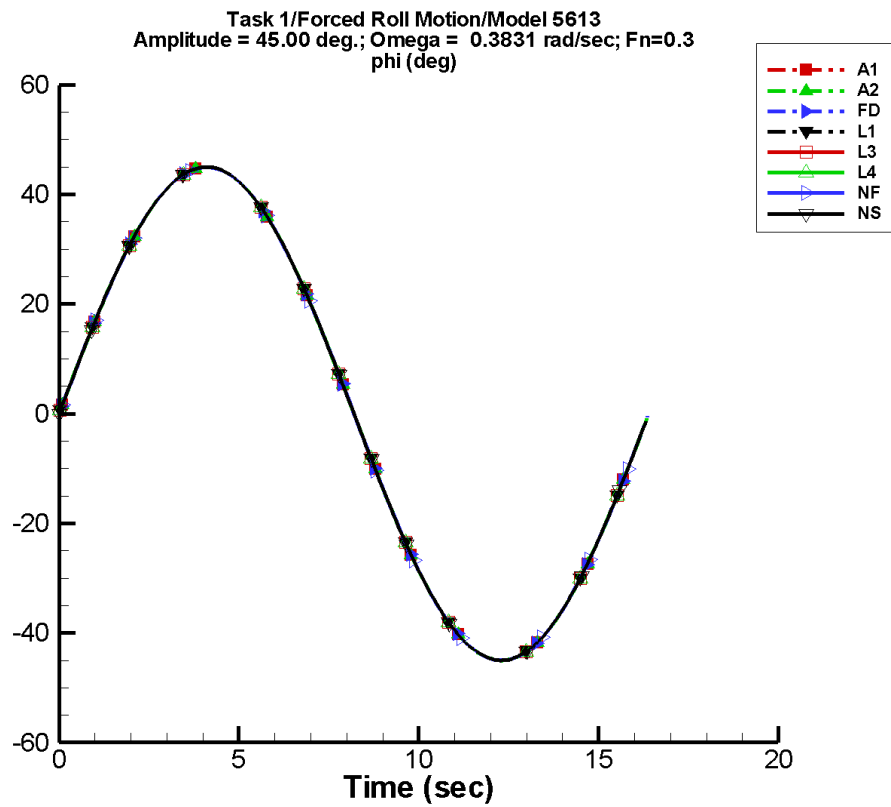


Figure C-24. Time history of ϕ for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Table C–47. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-3.38E-06	45.0	0	5.87E-06	-49
A2	-3.38E-06	45.0	0	5.87E-06	-49
FD	3.83E-06	45.0	0	6.29E-06	150
L1	1.61E-04	45.0	0	8.79E-05	107
L3	1.61E-04	45.0	0	8.79E-05	107
L4	1.61E-04	45.0	0	8.79E-05	107
NF	-0.327	45.0	-15	0.462	-42
NS	1.61E-07	45.0	0	2.52E-05	-174

Table C–48. Minimum and maximum of ϕ for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-45.0	45.0	-44.8	45.1
A2	-45.0	45.0	-44.8	45.1
FD	-45.0	45.0	-44.8	44.8
L1	-45.0	45.0	-44.9	44.9
L3	-45.0	45.0	-44.9	44.9
L4	-45.0	45.0	-44.9	44.9
NF	-45.0	45.0	-44.7	44.7
NS	-45.0	45.0	-44.9	44.9

TASK 1/ROLL MOTION/MODEL 5613

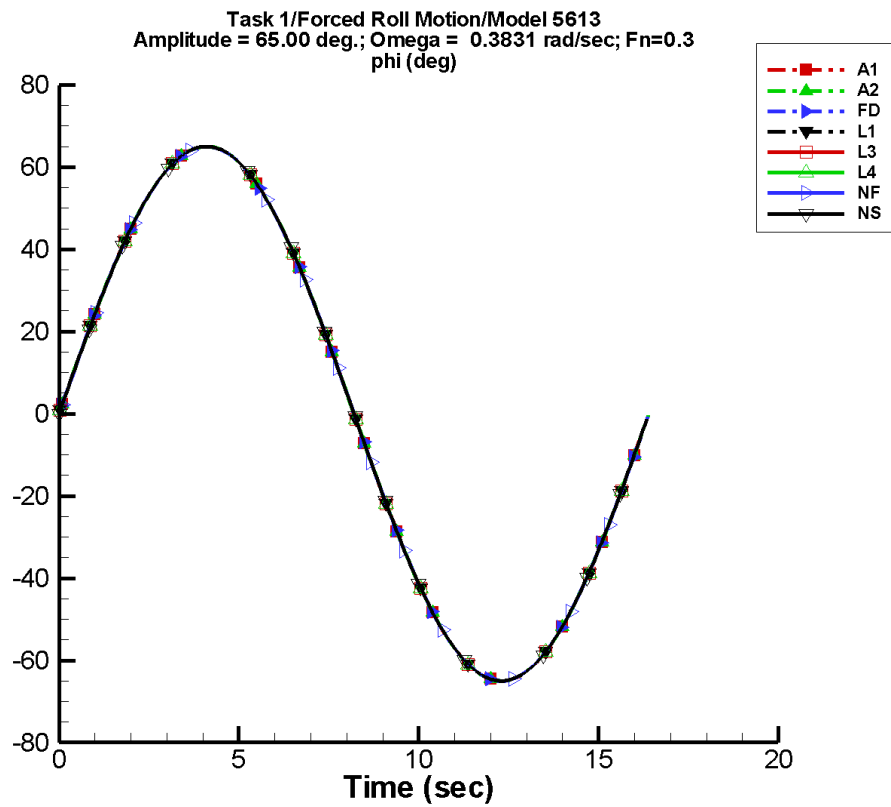


Figure C-25. Time history of ϕ for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

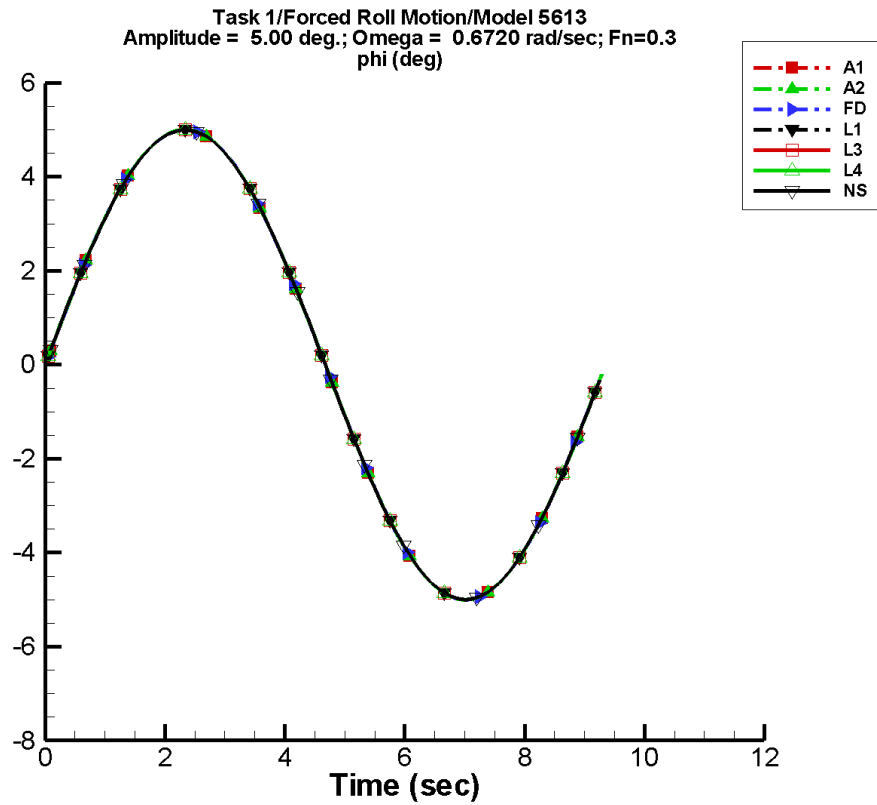
Table C–49. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	9.03E-06	65.0	0	5.40E-06	-51
A2	-4.27E-05	65.0	0	6.73E-05	-118
FD	9.18E-06	65.0	0	9.68E-06	98
L1	1.94E-04	65.0	0	1.32E-04	108
L3	1.94E-04	65.0	0	1.32E-04	108
L4	1.94E-04	65.0	0	1.32E-04	108
NF	-0.473	64.9	-15	0.667	-42
NS	5.38E-06	65.0	0	4.01E-06	-9

Table C–50. Minimum and maximum of ϕ for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-65.0	65.0	-64.8	65.2
A2	-65.0	65.0	-64.8	64.8
FD	-65.0	65.0	-64.8	64.8
L1	-65.0	65.0	-64.9	64.9
L3	-65.0	65.0	-64.9	64.9
L4	-65.0	65.0	-64.9	64.9
NF	-65.0	65.0	-64.6	64.6
NS	-65.0	65.0	-64.9	64.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-26. Time history of ϕ for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

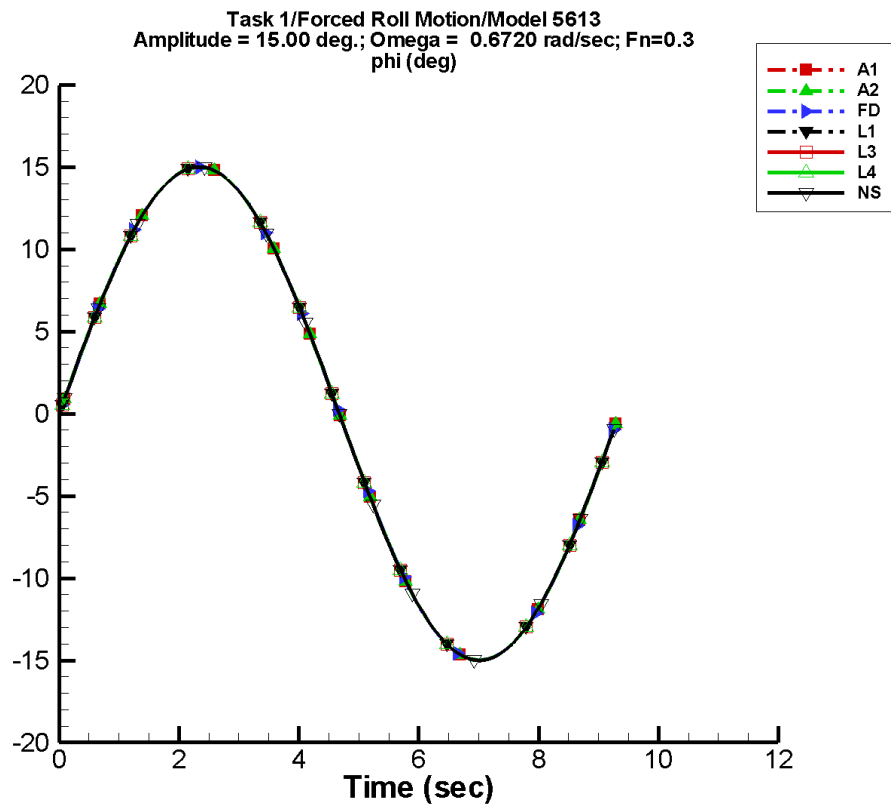
Table C–51. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.92E-06	5.00	0	8.21E-06	-17
A2	-4.92E-06	5.00	0	8.21E-06	-17
FD	-6.65E-06	5.00	0	1.07E-05	-143
L1	7.30E-05	5.00	0	7.19E-07	-112
L3	7.30E-05	5.00	0	7.19E-07	-112
L4	7.30E-05	5.00	0	7.19E-07	-112
NF	—	—	—	—	—
NS	-2.79E-07	5.00	0	5.18E-07	48

Table C–52. Minimum and maximum of ϕ for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-5.00	5.00	-4.94	4.94
A2	-5.00	5.00	-4.94	4.94
FD	-5.00	5.00	-4.97	4.94
L1	-5.00	5.00	-4.98	4.98
L3	-5.00	5.00	-4.98	4.98
L4	-5.00	5.00	-4.98	4.98
NF	—	—	—	—
NS	-5.00	5.00	-4.95	4.95

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-27. Time history of ϕ for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–53. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-1.51E-05	15.0	0	2.53E-05	-16
A2	-1.51E-05	15.0	0	2.53E-05	-16
FD	-1.95E-05	15.0	0	3.21E-05	-142
L1	2.31E-04	15.0	0	9.40E-07	-129
L3	2.31E-04	15.0	0	9.40E-07	-129
L4	2.31E-04	15.0	0	9.40E-07	-129
NF	—	—	—	—	—
NS	-8.78E-07	15.0	0	1.34E-06	73

Table C–54. Minimum and maximum of ϕ for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-15.0	15.0	-14.8	14.8
A2	-15.0	15.0	-14.8	14.8
FD	-15.0	15.0	-14.9	14.8
L1	-15.0	15.0	-14.9	14.9
L3	-15.0	15.0	-14.9	14.9
L4	-15.0	15.0	-14.9	14.9
NF	—	—	—	—
NS	-15.0	15.0	-14.9	14.9

TASK 1/ROLL MOTION/MODEL 5613

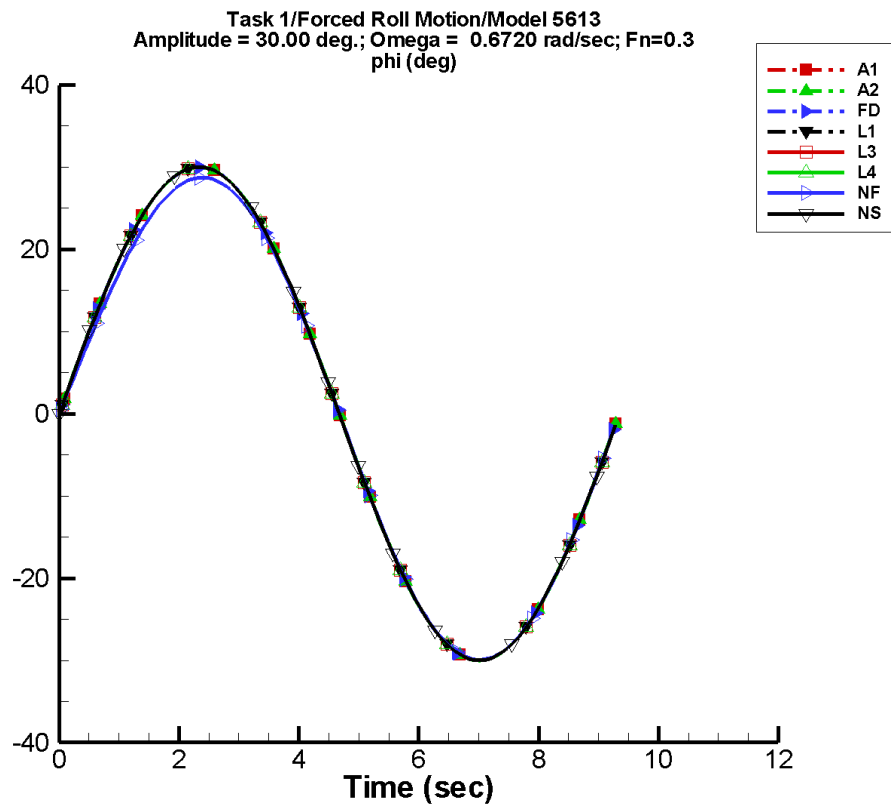


Figure C-28. Time history of ϕ for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–55. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-2.94E-05	30.0	0	5.17E-05	-18
A2	-2.94E-05	30.0	0	5.17E-05	-18
FD	-3.96E-05	30.0	0	6.41E-05	-142
L1	4.66E-04	30.0	0	5.70E-06	-63
L3	4.66E-04	30.0	0	5.70E-06	-63
L4	4.66E-04	30.0	0	5.70E-06	-63
NF	6.83E-02	30.0	-4	7.50E-02	141
NS	-1.39E-06	30.0	0	3.04E-06	-99

Table C–56. Minimum and maximum of ϕ for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-30.0	30.0	-29.7	29.6
A2	-30.0	30.0	-29.7	29.6
FD	-30.0	30.0	-29.8	29.7
L1	-30.0	30.0	-29.9	29.9
L3	-30.0	30.0	-29.9	29.9
L4	-30.0	30.0	-29.9	29.9
NF	-30.0	30.0	-29.9	29.8
NS	-30.0	30.0	-29.9	29.9

TASK 1/ROLL MOTION/MODEL 5613

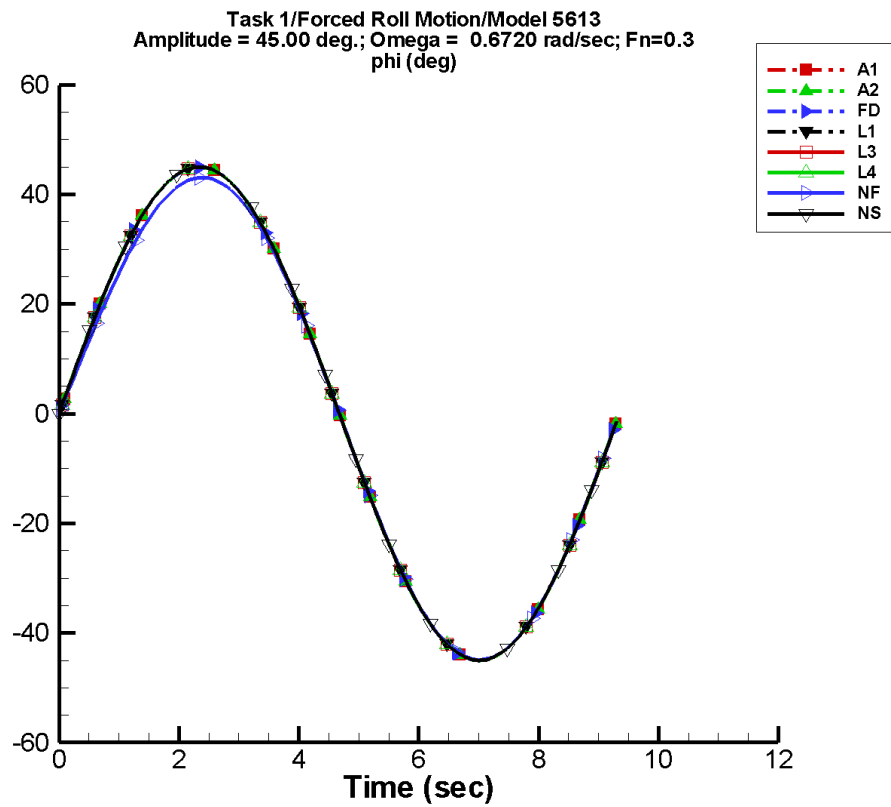


Figure C-29. Time history of ϕ for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–57. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-4.72E-05	45.0	0	7.50E-05	-17
A2	-4.72E-05	45.0	0	7.50E-05	-17
FD	-5.69E-05	45.0	0	9.63E-05	-142
L1	6.94E-04	45.0	0	1.86E-06	-106
L3	6.94E-04	45.0	0	1.86E-06	-106
L4	6.94E-04	45.0	0	1.86E-06	-106
NF	0.102	45.0	-4	0.113	141
NS	-1.04E-06	45.0	0	1.55E-06	151

Table C–58. Minimum and maximum of ϕ for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-45.0	45.0	-44.5	44.5
A2	-45.0	45.0	-44.5	44.5
FD	-45.0	45.0	-44.8	44.5
L1	-45.0	45.0	-44.8	44.8
L3	-45.0	45.0	-44.8	44.8
L4	-45.0	45.0	-44.8	44.8
NF	-45.0	45.0	-44.8	44.8
NS	-45.0	45.0	-44.9	44.9

TASK 1/ROLL MOTION/MODEL 5613

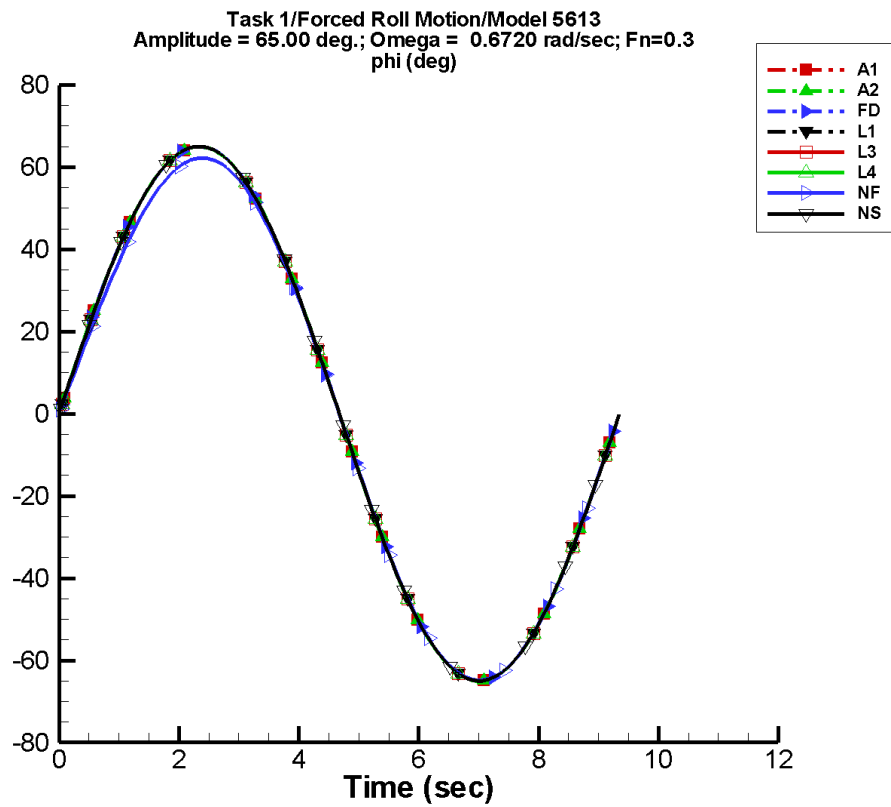


Figure C-30. Time history of ϕ for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

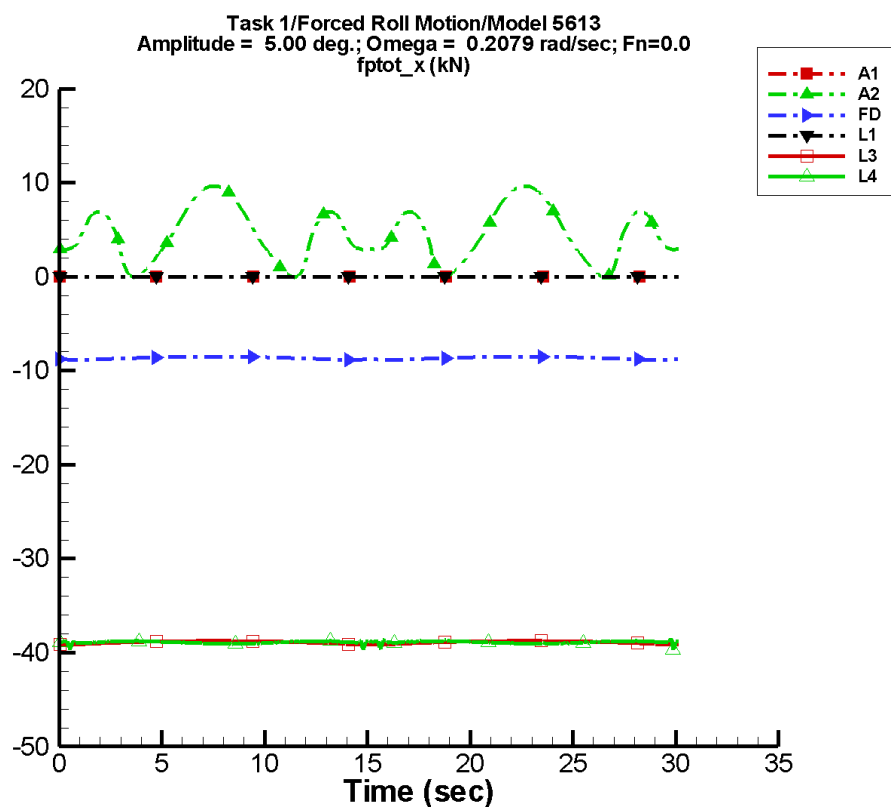
Table C–59. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of ϕ for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (deg)	a_1 (deg)	Φ_1 (deg)	a_2 (deg)	Φ_2 (deg)
A1	-6.81E-05	65.0	0	1.09E-04	-17
A2	-6.81E-05	65.0	0	1.09E-04	-17
FD	-8.29E-05	65.0	0	1.37E-04	-144
L1	1.03E-03	65.0	0	1.34E-05	141
L3	1.03E-03	65.0	0	1.34E-05	141
L4	1.03E-03	65.0	0	1.34E-05	141
NF	0.146	65.0	-4	0.160	141
NS	4.61E-07	65.0	0	2.35E-06	37

Table C–60. Minimum and maximum of ϕ for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (deg)	Maximum (deg)	Minimum (deg)	Maximum (deg)
A1	-65.0	65.0	-64.2	64.2
A2	-65.0	65.0	-64.2	64.2
FD	-65.0	65.0	-64.7	64.3
L1	-65.0	65.0	-64.7	64.7
L3	-65.0	65.0	-64.7	64.7
L4	-65.0	65.0	-64.7	64.7
NF	-65.0	65.0	-64.7	64.7
NS	-65.0	65.0	-64.9	64.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-31. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

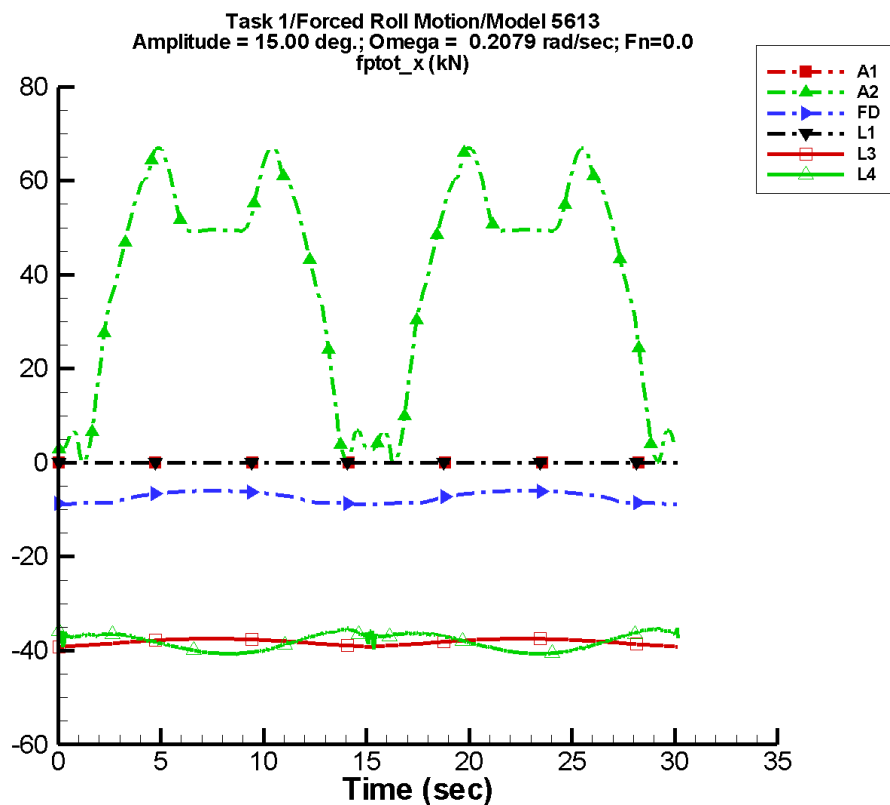
Table C–61. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.99E-07	4.29E-07	-151	1.59E-07	-5
A2	4.58	3.43E-02	-131	1.36	-99
FD	-8.65	2.56E-04	11	0.171	-90
L1	-5.29E-04	5.27E-06	-7	1.99E-03	-16
L3	-38.9	3.66E-03	-62	0.177	-91
L4	-38.9	1.07E-02	-89	6.68E-02	65
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–62. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.94E-05	1.98E-05	-1.13E-05	1.14E-05
A2	-5.28E-02	9.66	0.127	9.58
FD	-8.84	-8.50	-8.84	-8.50
L1	-2.61E-03	1.51E-03	-2.53E-03	1.46E-03
L3	-39.2	-38.8	-39.2	-38.8
L4	-39.8	-38.5	-39.1	-38.7
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-32. Time history of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

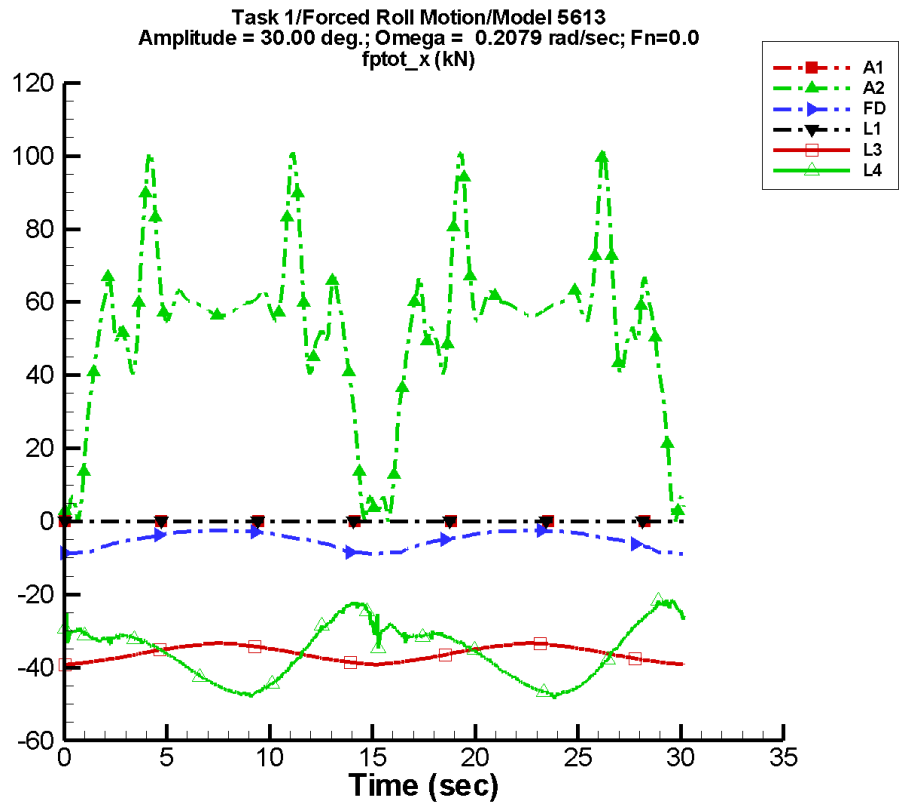
Table C–63. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.97E-07	1.29E-06	-151	4.77E-07	-5
A2	39.4	0.259	6	25.7	-89
FD	-7.39	1.49E-03	47	1.52	-90
L1	-4.76E-03	1.38E-05	-13	1.79E-02	-17
L3	-38.2	7.28E-03	-59	0.780	-90
L4	-38.1	8.57E-02	-114	2.22	79
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–64. Minimum and maximum of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.81E-05	5.92E-05	-3.38E-05	3.42E-05
A2	-4.03E-02	67.0	2.72	65.8
FD	-8.84	-5.98	-8.82	-5.98
L1	-2.29E-02	1.33E-02	-2.27E-02	1.31E-02
L3	-39.2	-37.5	-39.2	-37.5
L4	-40.8	-35.1	-40.7	-35.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-33. Time history of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

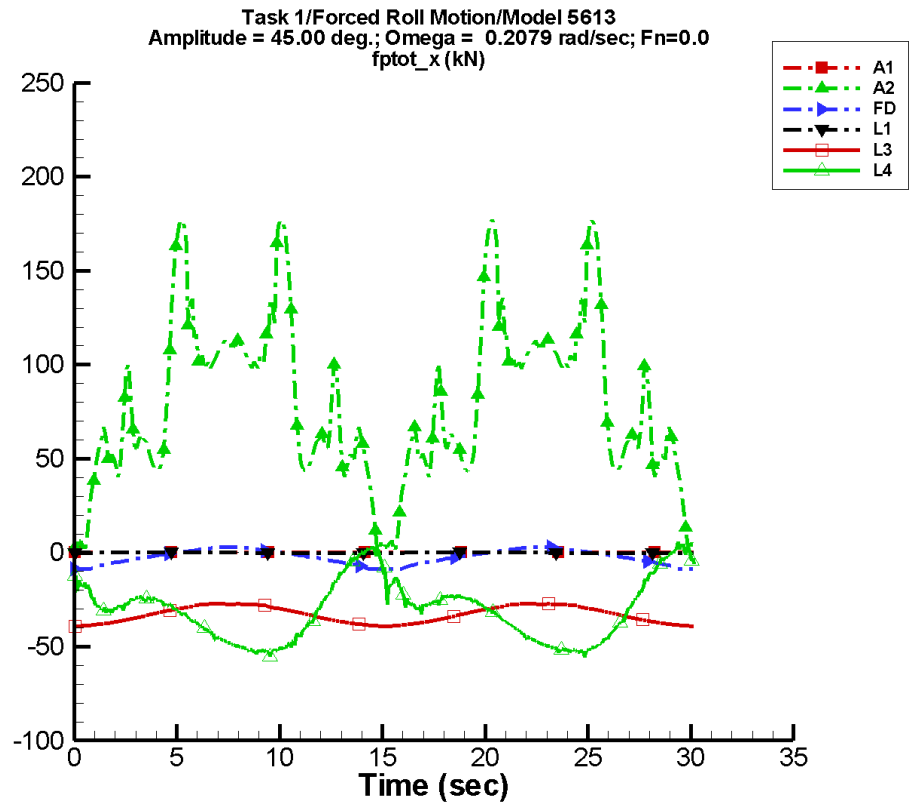
Table C–65. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.79E-06	2.58E-06	-151	9.53E-07	-5
A2	52.1	0.378	-20	18.4	-87
FD	-5.10	1.35E-02	2	3.06	-89
L1	-1.91E-02	2.80E-05	-20	7.16E-02	-17
L3	-36.2	5.61E-03	-63	2.71	-90
L4	-35.7	0.494	-107	9.51	79
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–66. Minimum and maximum of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.16E-04	1.18E-04	-6.77E-05	6.83E-05
A2	-5.33E-02	101.	3.14	88.9
FD	-8.84	-2.55	-8.80	-2.56
L1	-9.11E-02	5.28E-02	-9.07E-02	5.26E-02
L3	-39.2	-33.4	-39.2	-33.4
L4	-48.5	-21.4	-47.5	-22.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-34. Time history of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

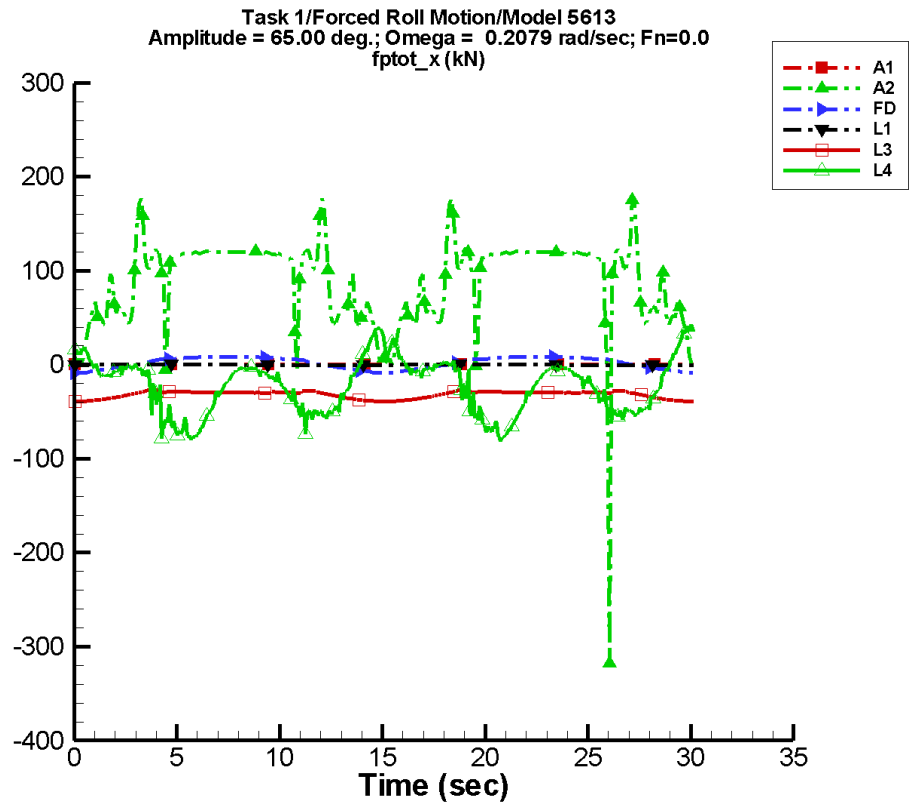
Table C–67. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.69E-06	3.86E-06	-151	1.43E-06	-5
A2	79.5	0.338	4	47.2	-91
FD	-2.40	6.32E-03	-34	5.28	-90
L1	-4.29E-02	4.62E-05	-20	0.161	-17
L3	-32.9	6.20E-03	-62	5.95	-90
L4	-31.1	1.19	-114	18.3	79
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–68. Minimum and maximum of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.74E-04	1.78E-04	-1.02E-04	1.03E-04
A2	-4.15E-02	177.	2.71	165.
FD	-8.84	3.06	-8.80	3.02
L1	-0.204	0.119	-0.204	0.118
L3	-39.2	-27.3	-39.2	-27.3
L4	-55.5	5.70	-52.9	2.89
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C–35. Time history of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

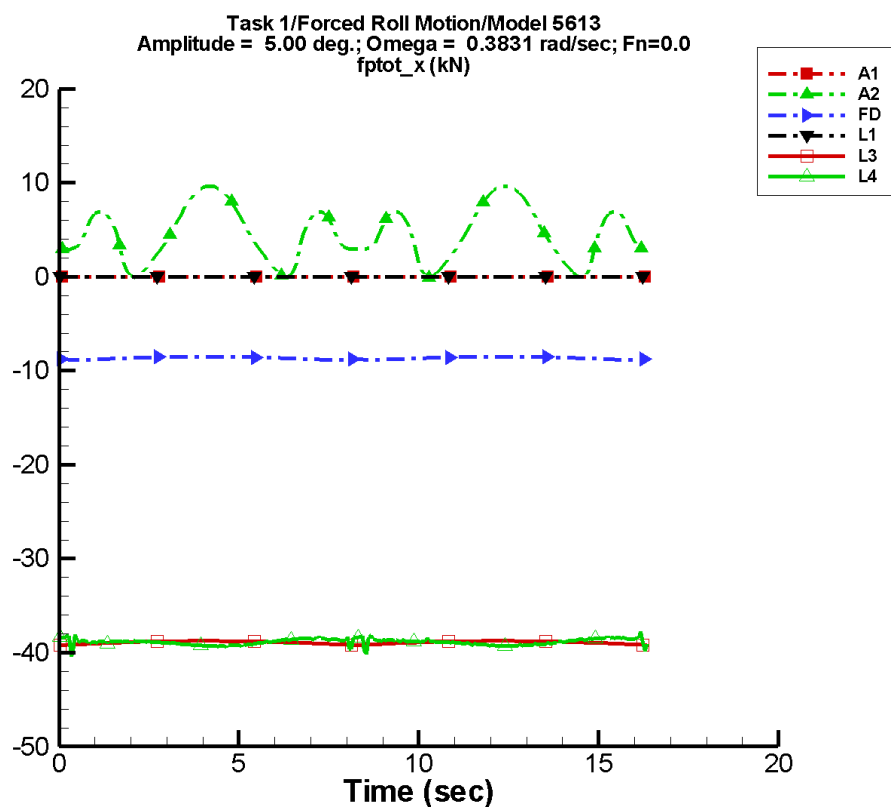
Table C–69. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-3.89E-06	5.58E-06	-151	2.07E-06	-5
A2	88.7	3.20	-44	39.8	-86
FD	1.74	3.68E-02	5	8.36	-89
L1	-8.94E-02	6.29E-05	-23	0.336	-17
L3	-31.7	0.221	-61	4.21	-87
L4	-23.3	2.18	129	17.3	92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–70. Minimum and maximum of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.52E-04	2.57E-04	-1.47E-04	1.48E-04
A2	-317.	177.	2.64	136.
FD	-8.84	8.60	-8.82	8.56
L1	-0.427	0.247	-0.426	0.247
L3	-39.3	-27.1	-39.2	-27.1
L4	-81.4	42.9	-76.5	38.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-36. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

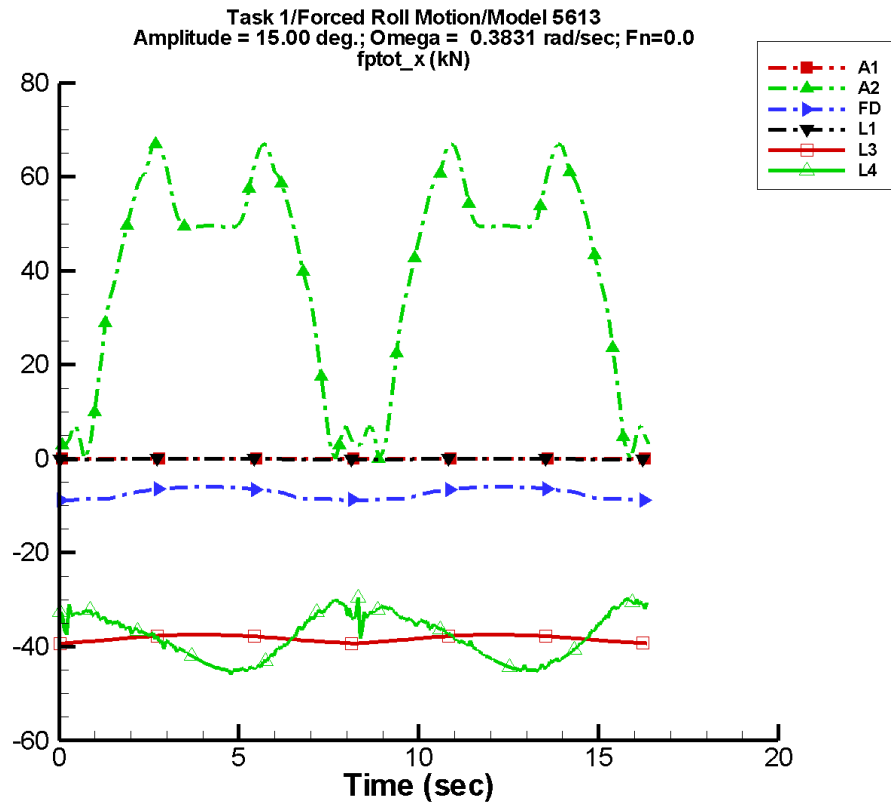
Table C–71. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-9.17E-07	1.46E-05	100	1.43E-06	-35
A2	4.58	3.03E-02	-115	1.37	-103
FD	-8.65	6.69E-04	-78	0.171	-90
L1	-9.09E-03	1.75E-05	-5	8.31E-03	-81
L3	-38.9	3.19E-03	-35	0.189	-88
L4	-38.9	1.48E-02	-115	0.286	98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–72. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.55E-05	6.35E-05	-2.69E-05	4.36E-05
A2	-5.31E-02	9.66	0.611	9.43
FD	-8.84	-8.50	-8.83	-8.50
L1	-1.77E-02	-7.24E-04	-1.75E-02	-8.01E-04
L3	-39.2	-38.8	-39.2	-38.8
L4	-40.5	-37.8	-39.3	-38.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-37. Time history of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

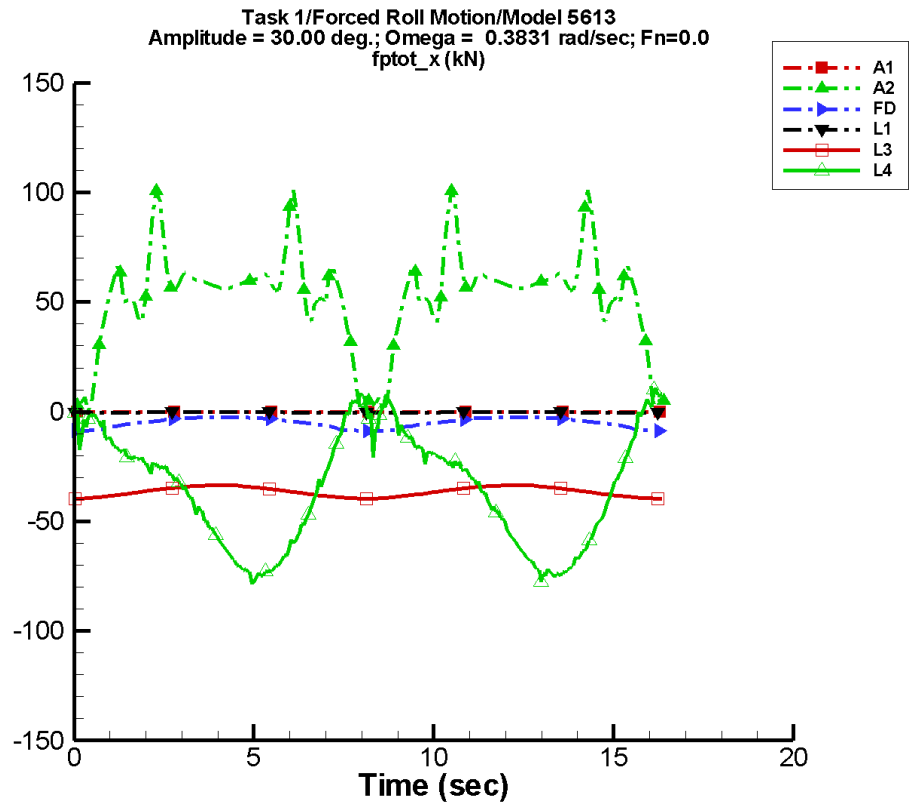
Table C–73. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.75E-06	4.39E-05	100	4.29E-06	-35
A2	39.4	0.144	13	25.6	-91
FD	-7.38	7.65E-03	-53	1.51	-90
L1	-8.18E-02	7.09E-05	16	7.48E-02	-81
L3	-38.2	7.75E-03	-36	0.865	-85
L4	-37.8	0.300	-134	6.26	70
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–74. Minimum and maximum of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.66E-04	1.90E-04	-8.07E-05	1.31E-04
A2	-5.35E-02	67.0	3.38	63.6
FD	-8.84	-5.98	-8.81	-6.00
L1	-0.158	-6.85E-03	-0.157	-7.29E-03
L3	-39.3	-37.4	-39.3	-37.5
L4	-45.9	-29.5	-45.1	-30.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-38. Time history of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

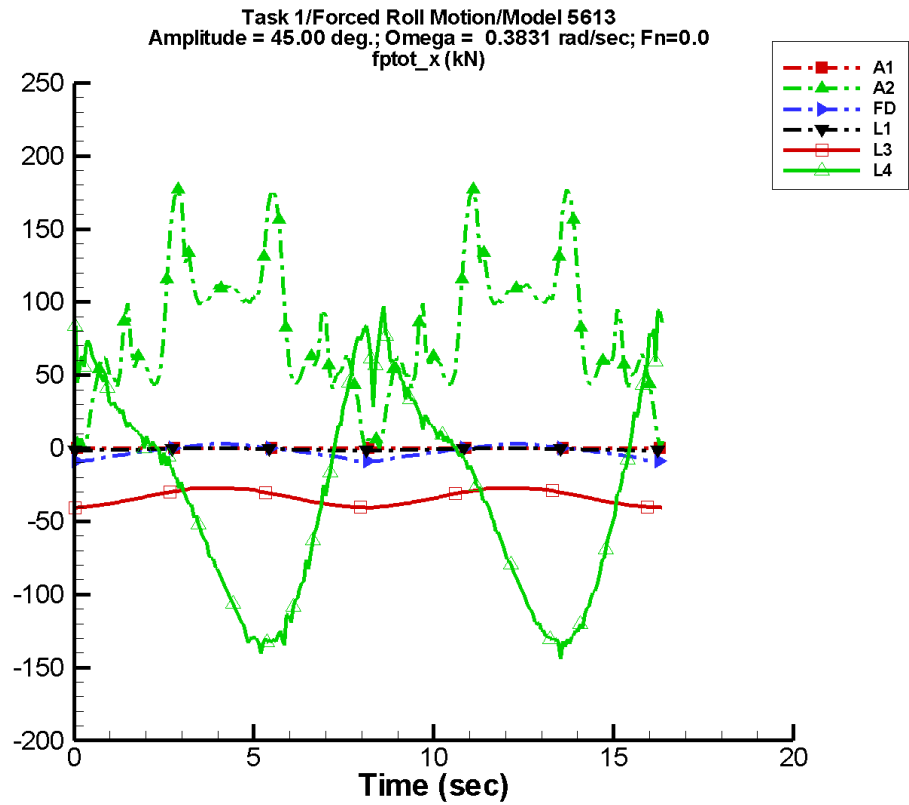
Table C–75. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-5.50E-06	8.78E-05	100	8.58E-06	-35
A2	52.1	0.284	-29	18.3	-89
FD	-5.09	2.02E-02	-62	3.02	-90
L1	-0.327	2.28E-04	31	0.299	-81
L3	-36.5	3.70E-03	-57	3.03	-85
L4	-35.0	1.42	-124	33.6	59
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–76. Minimum and maximum of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.33E-04	3.81E-04	-1.61E-04	2.62E-04
A2	-1.22E-02	101.	2.62	75.4
FD	-8.84	-2.55	-8.80	-2.58
L1	-0.632	-2.76E-02	-0.630	-2.92E-02
L3	-39.8	-33.3	-39.8	-33.4
L4	-78.5	12.2	-75.3	7.20
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-39. Time history of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

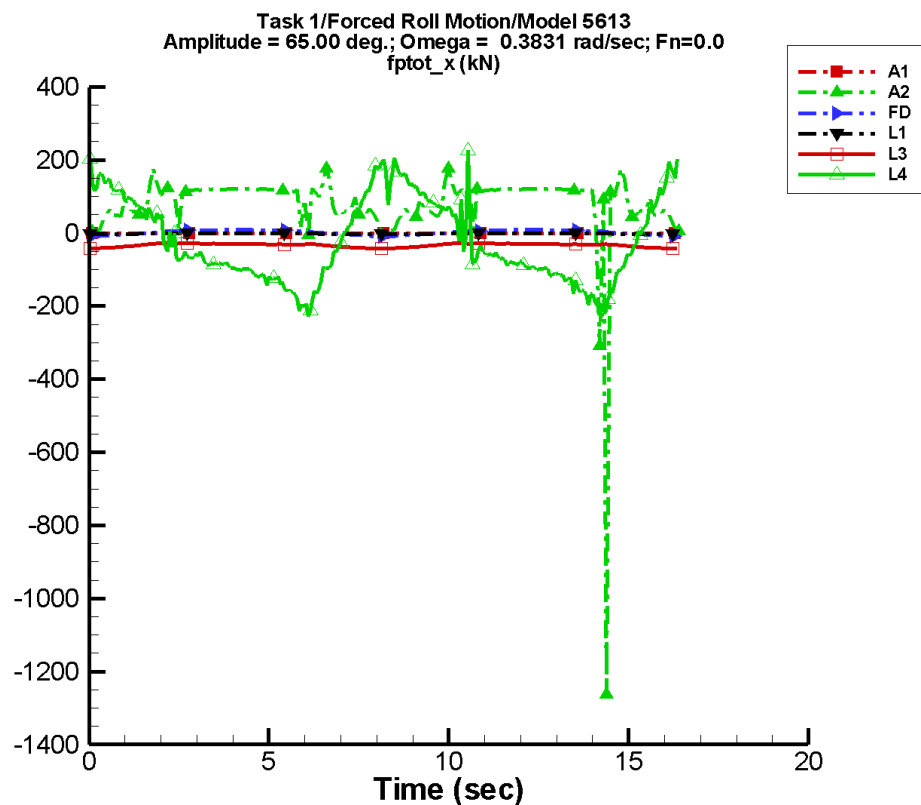
Table C–77. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.25E-06	1.32E-04	100	1.29E-05	-35
A2	79.5	0.183	-28	47.2	-93
FD	-2.39	8.57E-03	-62	5.27	-90
L1	-0.736	4.96E-04	37	0.673	-81
L3	-33.6	4.11E-03	-36	6.68	-85
L4	-30.3	3.05	-141	90.7	54
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–78. Minimum and maximum of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.99E-04	5.71E-04	-2.42E-04	3.93E-04
A2	6.17E-02	177.	6.86	142.
FD	-8.83	3.05	-8.72	2.91
L1	-1.42	-6.16E-02	-1.42	-6.58E-02
L3	-40.6	-27.1	-40.5	-27.1
L4	-144.	97.2	-134.	79.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C–40. Time history of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

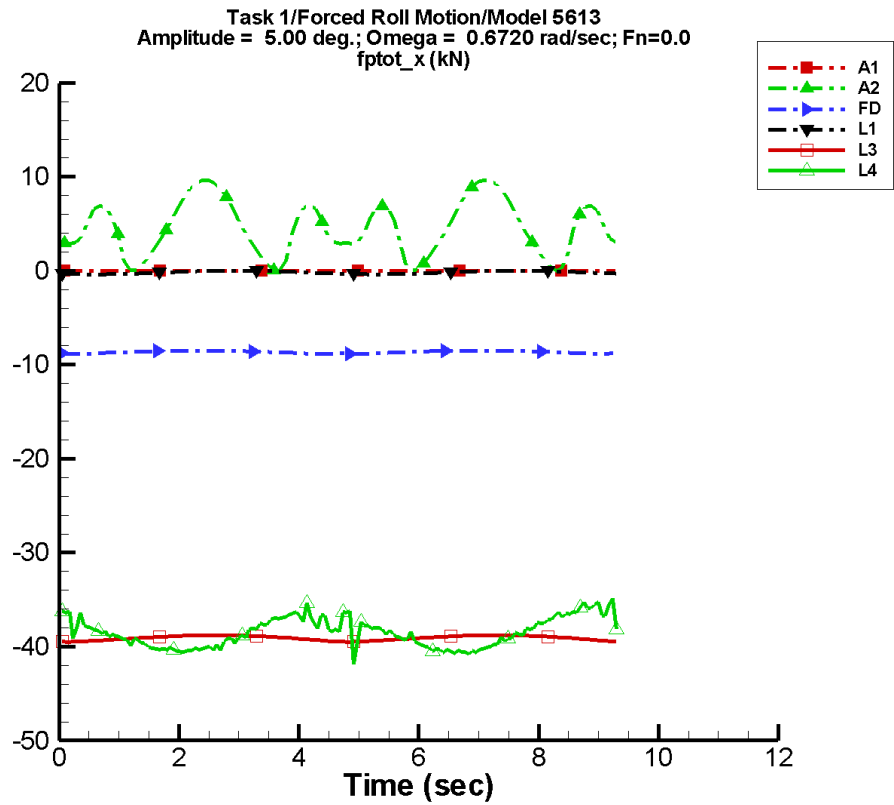
Table C–79. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.19E-05	1.90E-04	100	1.86E-05	-35
A2	80.3	18.9	-50	46.0	-68
FD	1.77	8.12E-02	-57	8.24	-90
L1	-1.54	9.60E-04	41	1.40	-81
L3	-33.4	0.223	-36	6.11	-72
L4	-20.1	8.77	-157	139.	60
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–80. Minimum and maximum of of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.21E-04	8.25E-04	-3.50E-04	5.67E-04
A2	-1.26E+03	177.	-139.	136.
FD	-8.82	8.60	-8.50	8.50
L1	-2.97	-0.129	-2.96	-0.137
L3	-42.2	-26.9	-42.0	-27.5
L4	-228.	227.	-202.	177.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-41. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

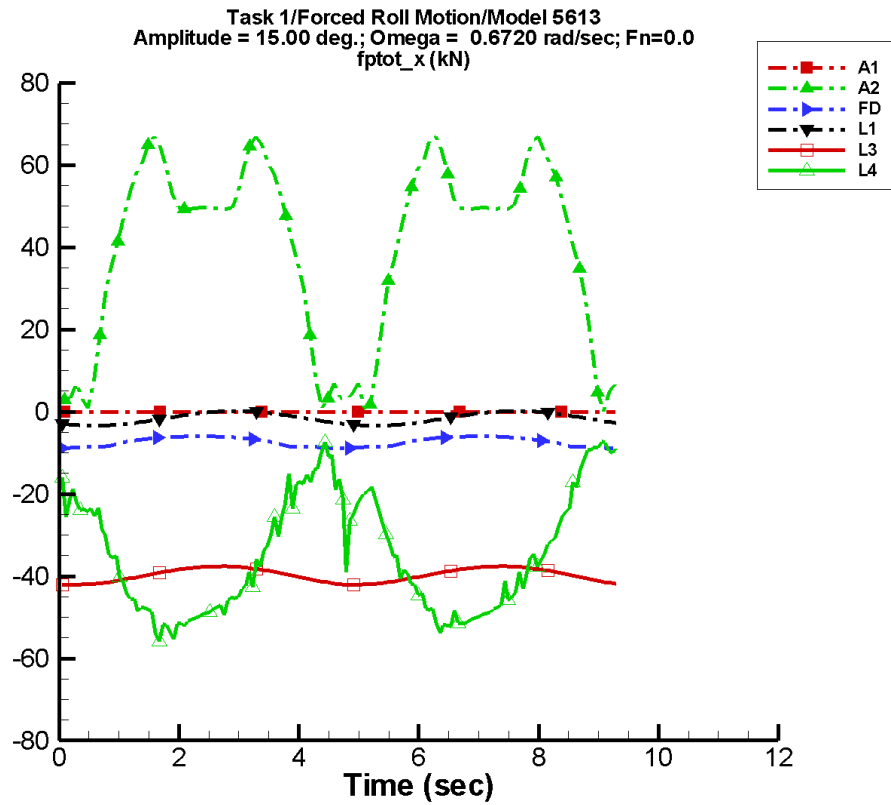
Table C–81. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.15E-06	1.12E-04	-9	6.09E-06	-86
A2	4.48	0.224	-175	1.15	-109
FD	-8.66	6.21E-04	-16	0.170	-90
L1	-0.179	1.21E-04	157	0.198	-137
L3	-39.1	1.10E-03	-172	0.337	-108
L4	-38.5	0.282	111	1.94	123
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–82. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.41E-04	1.73E-04	-1.35E-04	1.47E-04
A2	-5.33E-02	9.65	1.77	8.87
FD	-8.84	-8.50	-8.82	-8.50
L1	-0.377	1.89E-02	-0.374	1.66E-02
L3	-39.5	-38.8	-39.5	-38.8
L4	-41.9	-34.8	-40.6	-35.8
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-42. Time history of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

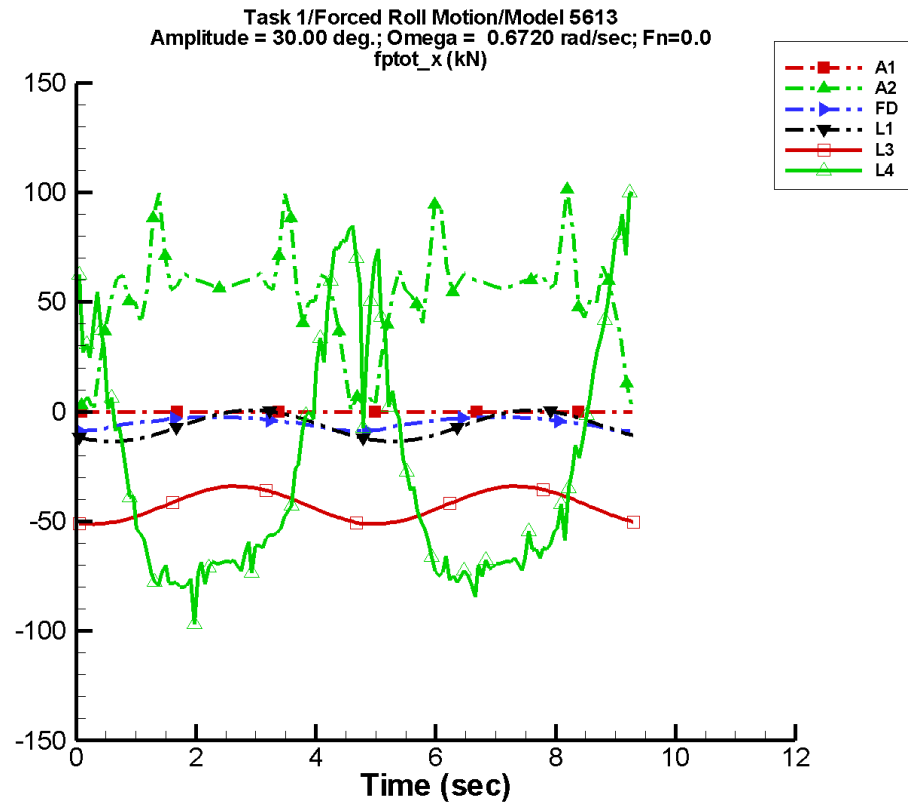
Table C–83. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	3.44E-06	3.36E-04	-9	1.83E-05	-86
A2	39.9	1.30	-1	26.9	-94
FD	-7.39	3.91E-03	-19	1.51	-90
L1	-1.61	3.23E-04	161	1.78	-137
L3	-39.8	2.52E-03	-168	2.24	-114
L4	-34.5	0.868	162	19.1	109
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–84. Minimum and maximum of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.22E-04	5.18E-04	-4.06E-04	4.39E-04
A2	1.46E-02	67.0	2.54	61.1
FD	-8.84	-5.98	-8.79	-6.00
L1	-3.39	0.171	-3.36	0.151
L3	-42.1	-37.6	-42.1	-37.6
L4	-55.9	-7.20	-52.9	-8.35
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-43. Time history of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

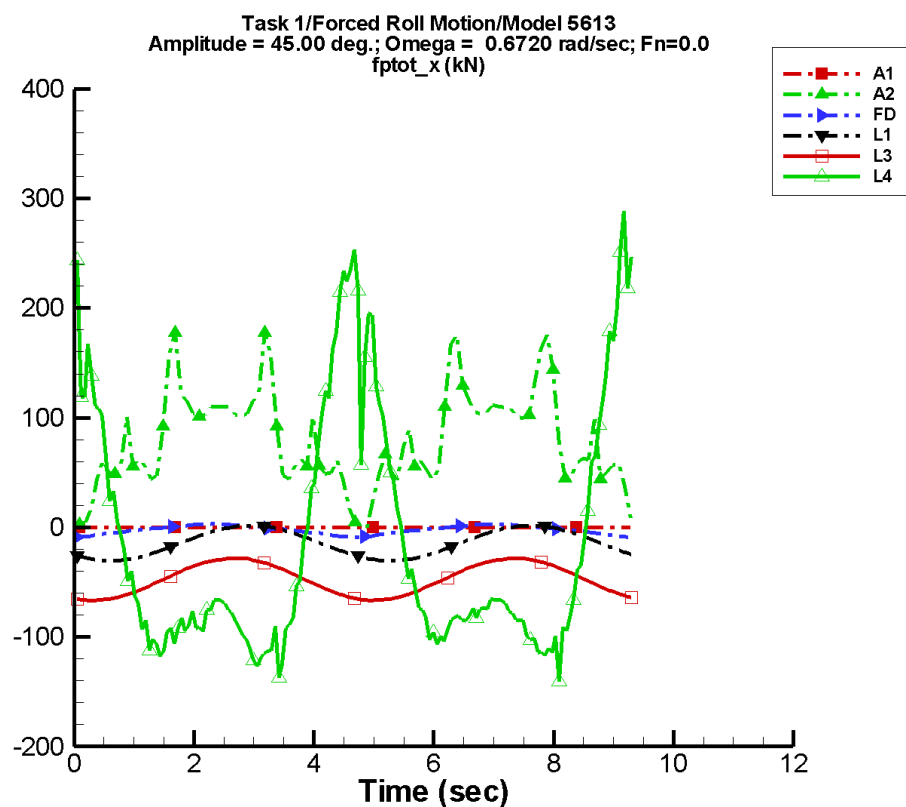
Table C–85. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.88E-06	6.72E-04	-9	3.66E-05	-86
A2	52.5	1.20	-15	19.5	-92
FD	-5.11	3.95E-02	-29	3.03	-89
L1	-6.44	5.03E-04	179	7.12	-137
L3	-42.6	2.16E-03	-125	8.57	-115
L4	-25.2	1.52	-137	67.6	102
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–86. Minimum and maximum of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-8.44E-04	1.04E-03	-8.12E-04	8.79E-04
A2	0.249	101.	8.35	67.4
FD	-8.84	-2.55	-8.71	-2.58
L1	-13.6	0.683	-13.4	0.603
L3	-51.2	-33.9	-51.1	-34.2
L4	-96.7	100.	-79.3	81.1
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-44. Time history of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

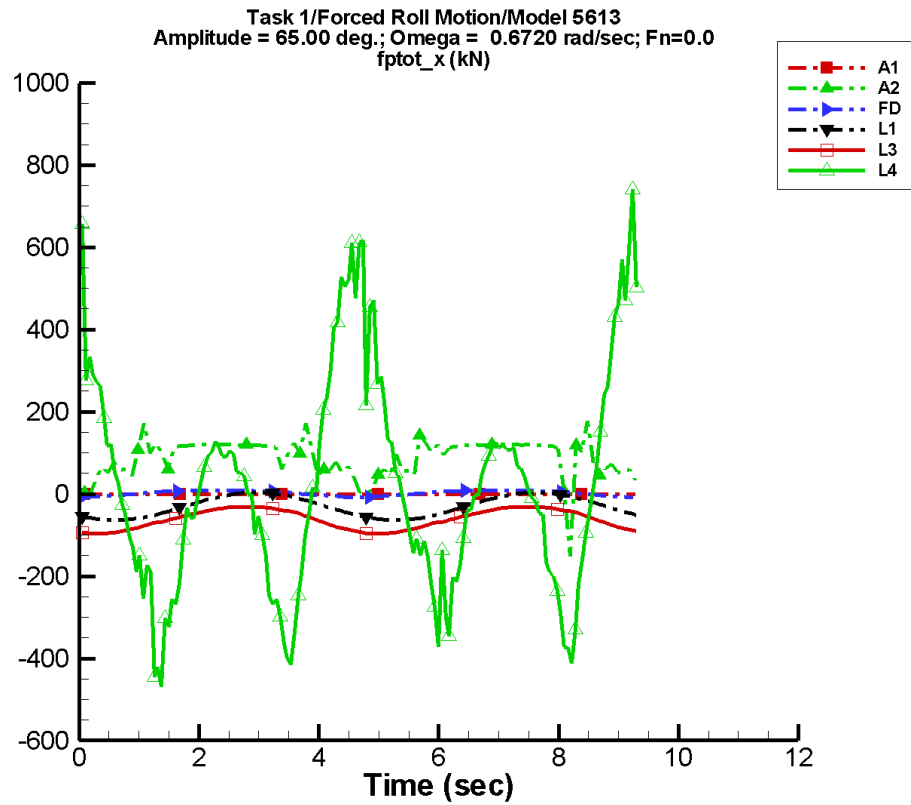
Table C–87. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.03E-05	1.01E-03	-9	5.48E-05	-86
A2	80.1	0.615	14	48.8	-96
FD	-2.39	1.41E-02	-30	5.29	-90
L1	-14.5	7.00E-04	-146	16.0	-137
L3	-47.4	5.09E-03	-84	19.1	-116
L4	-10.7	3.58	-157	126.	94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–88. Minimum and maximum of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.27E-03	1.55E-03	-1.22E-03	1.32E-03
A2	-1.97E-02	177.	12.7	136.
FD	-8.83	3.05	-8.45	2.72
L1	-30.5	1.54	-30.3	1.35
L3	-66.6	-28.1	-66.3	-28.5
L4	-140.	288.	-117.	228.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-45. Time history of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

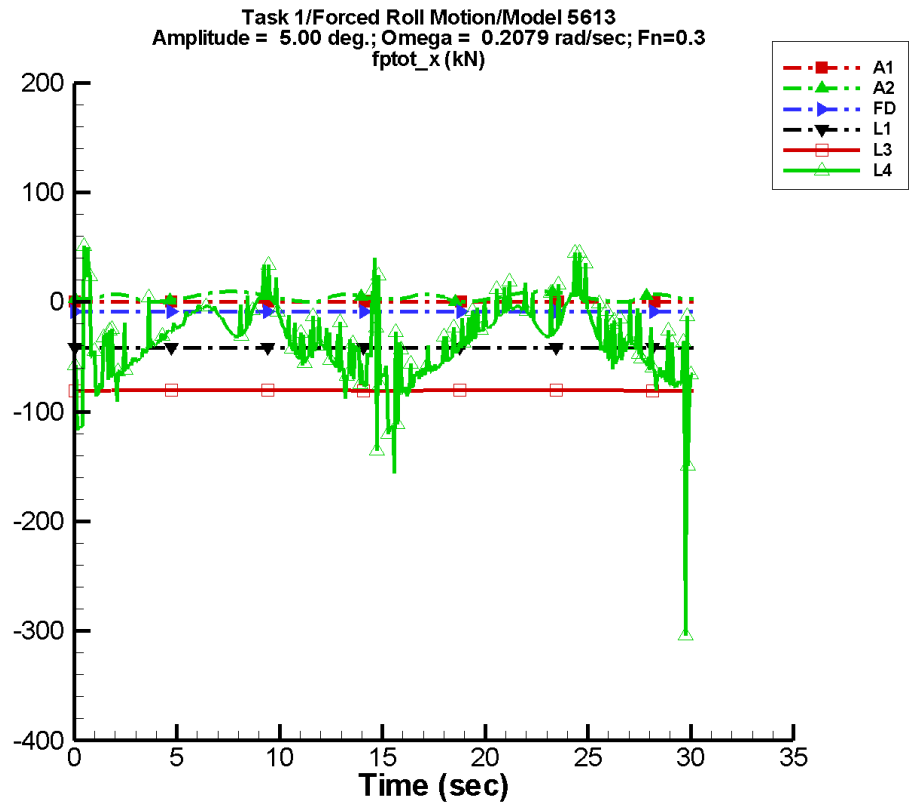
Table C–89. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.49E-05	1.46E-03	-9	7.92E-05	-86
A2	87.4	7.32	-51	40.9	-86
FD	1.70	0.114	-28	8.28	-89
L1	-30.2	1.20E-03	-118	33.4	-137
L3	-62.1	7.69E-02	165	32.4	-120
L4	31.5	13.4	-118	178.	109
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–90. Minimum and maximum of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.83E-03	2.24E-03	-1.76E-03	1.90E-03
A2	-152.	177.	15.8	124.
FD	-8.85	8.60	-8.04	8.51
L1	-63.7	3.20	-63.1	2.83
L3	-96.6	-31.0	-96.0	-31.5
L4	-468.	740.	-330.	551.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-46. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

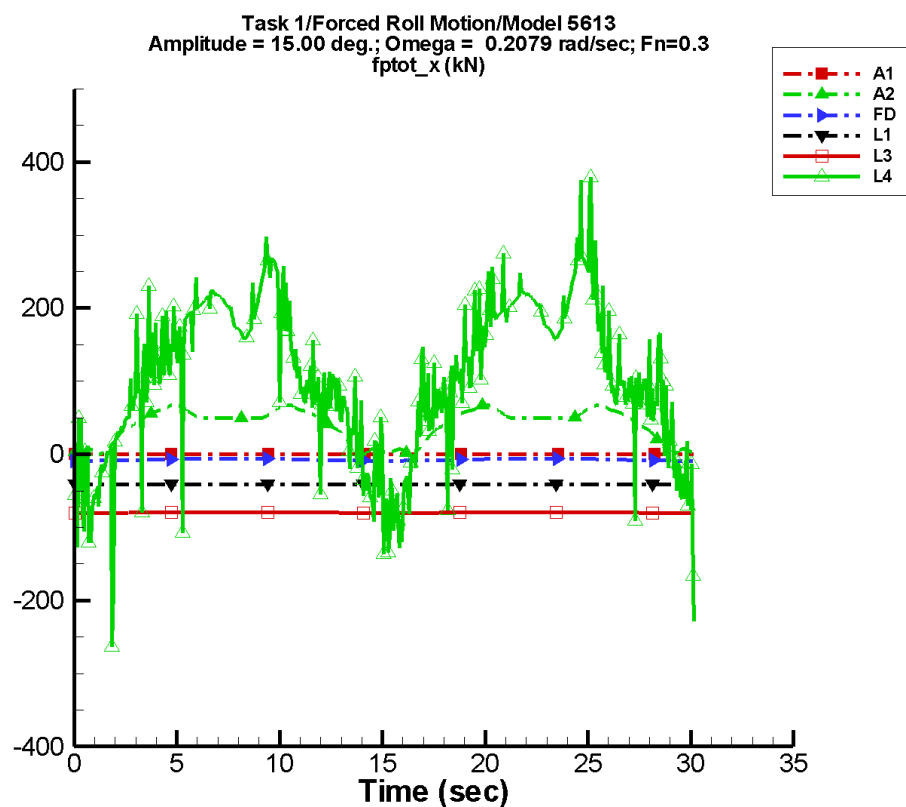
Table C–91. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.54E-07	7.41E-04	101	3.84E-07	40
A2	4.57	4.71E-02	-149	1.34	-101
FD	-8.65	2.47E-04	11	0.171	-90
L1	-41.6	2.03E-03	21	1.51E-02	104
L3	-80.6	4.91E-02	-77	0.159	-81
L4	-36.0	1.49	99	29.6	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–92. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.38E-04	7.40E-04	-7.37E-04	7.39E-04
A2	-5.22E-02	9.66	0.128	9.58
FD	-8.84	-8.50	-8.84	-8.50
L1	-41.7	-41.6	-41.6	-41.6
L3	-80.9	-80.4	-80.9	-80.4
L4	-304.	76.4	-106.	14.7
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-47. Time history of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

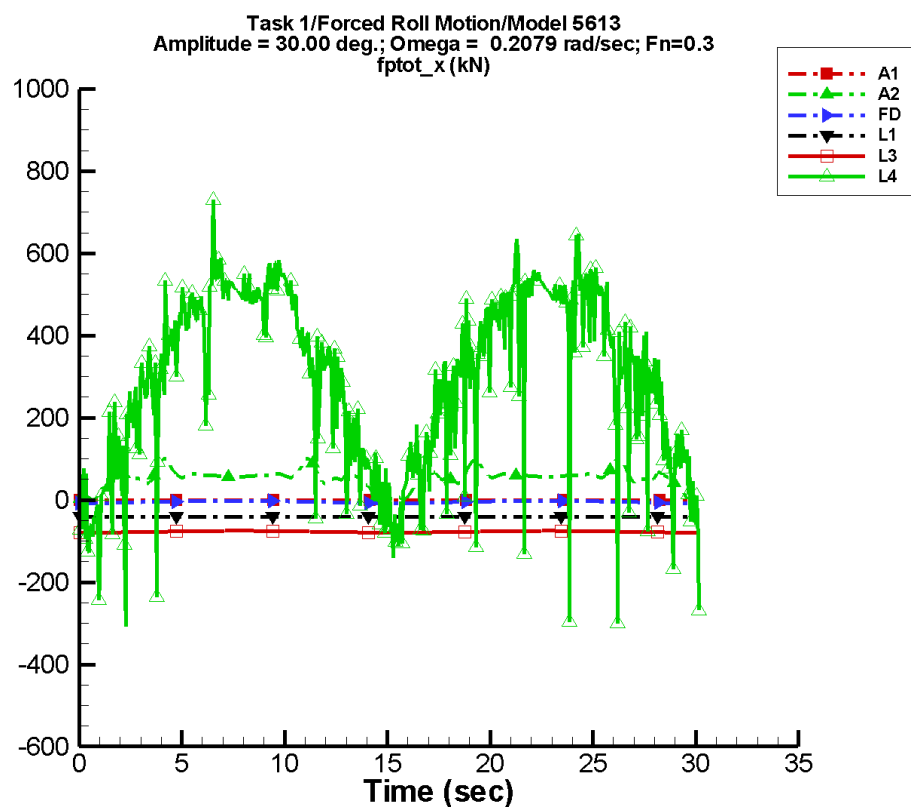
Table C–93. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-4.63E-07	2.22E-03	101	1.15E-06	40
A2	39.4	0.258	7	25.7	-89
FD	-7.39	1.50E-03	47	1.52	-90
L1	-41.5	2.39E-03	41	0.137	106
L3	-79.7	5.19E-02	-75	0.638	-92
L4	107.	7.29	-159	127.	-96
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–94. Minimum and maximum of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.21E-03	2.22E-03	-2.21E-03	2.22E-03
A2	-3.83E-02	67.0	2.73	65.9
FD	-8.84	-5.98	-8.82	-5.98
L1	-41.7	-41.3	-41.7	-41.4
L3	-80.6	-79.1	-80.6	-79.1
L4	-263.	379.	-95.3	289.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-48. Time history of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

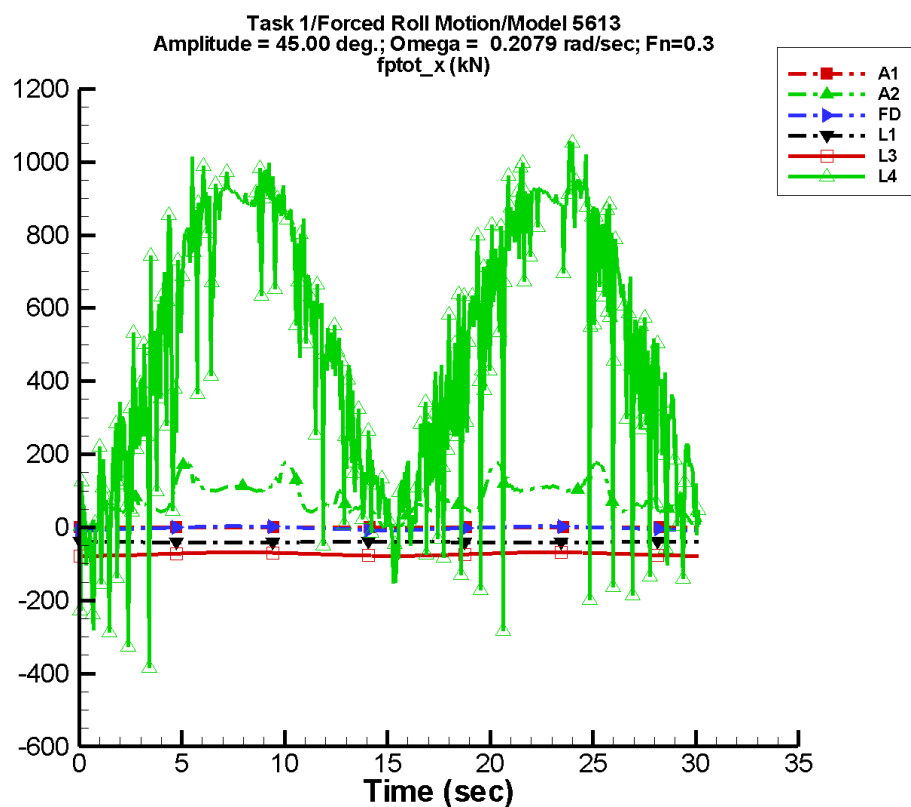
Table C–95. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-9.26E-07	4.44E-03	101	2.30E-06	40
A2	52.1	0.375	-19	18.4	-87
FD	-5.10	1.34E-02	2	3.06	-89
L1	-41.1	3.61E-03	60	0.548	106
L3	-77.3	4.89E-02	-76	2.16	-95
L4	298.	15.6	-74	255.	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–96. Minimum and maximum of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.42E-03	4.44E-03	-4.42E-03	4.43E-03
A2	-5.75E-02	101.	3.14	88.9
FD	-8.84	-2.55	-8.80	-2.56
L1	-41.7	-40.5	-41.7	-40.6
L3	-79.8	-75.0	-79.8	-75.0
L4	-310.	730.	-85.8	577.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-49. Time history of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

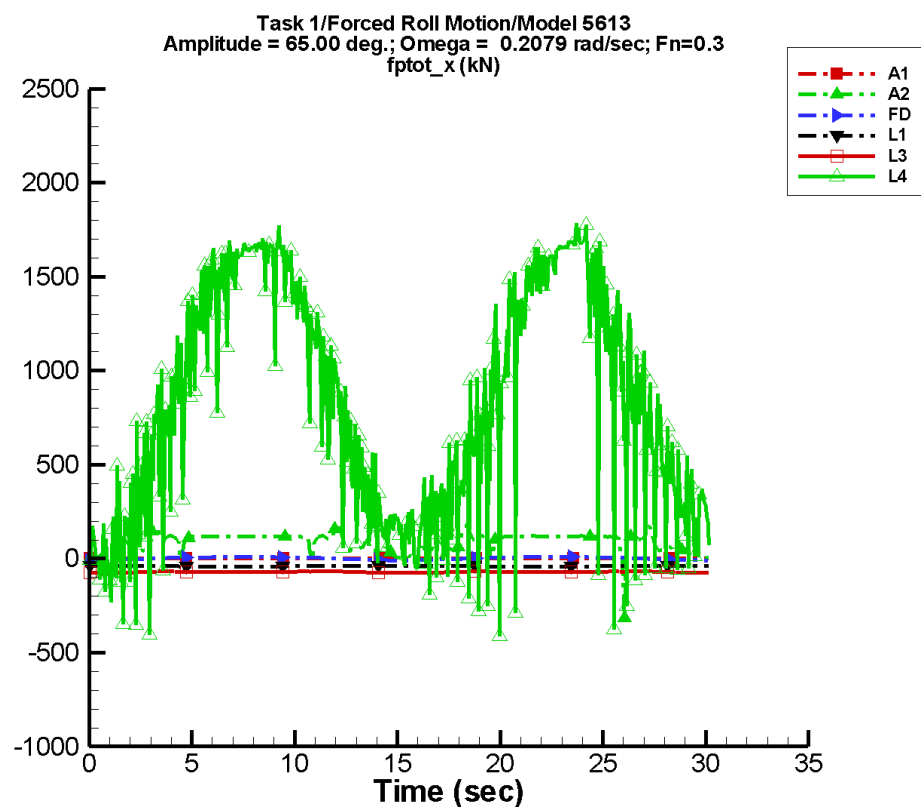
Table C–97. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.39E-06	6.67E-03	101	3.46E-06	40
A2	79.5	0.337	5	47.2	-91
FD	-2.40	6.31E-03	-34	5.28	-90
L1	-40.4	5.22E-03	69	1.23	106
L3	-73.3	4.77E-02	-75	4.74	-95
L4	498.	19.8	-64	443.	-100
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–98. Minimum and maximum of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.64E-03	6.66E-03	-6.63E-03	6.65E-03
A2	-3.50E-02	177.	2.72	165.
FD	-8.84	3.06	-8.80	3.02
L1	-41.7	-39.2	-41.7	-39.2
L3	-78.5	-68.7	-78.4	-68.7
L4	-395.	1.06E+03	-101.	954.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-50. Time history of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

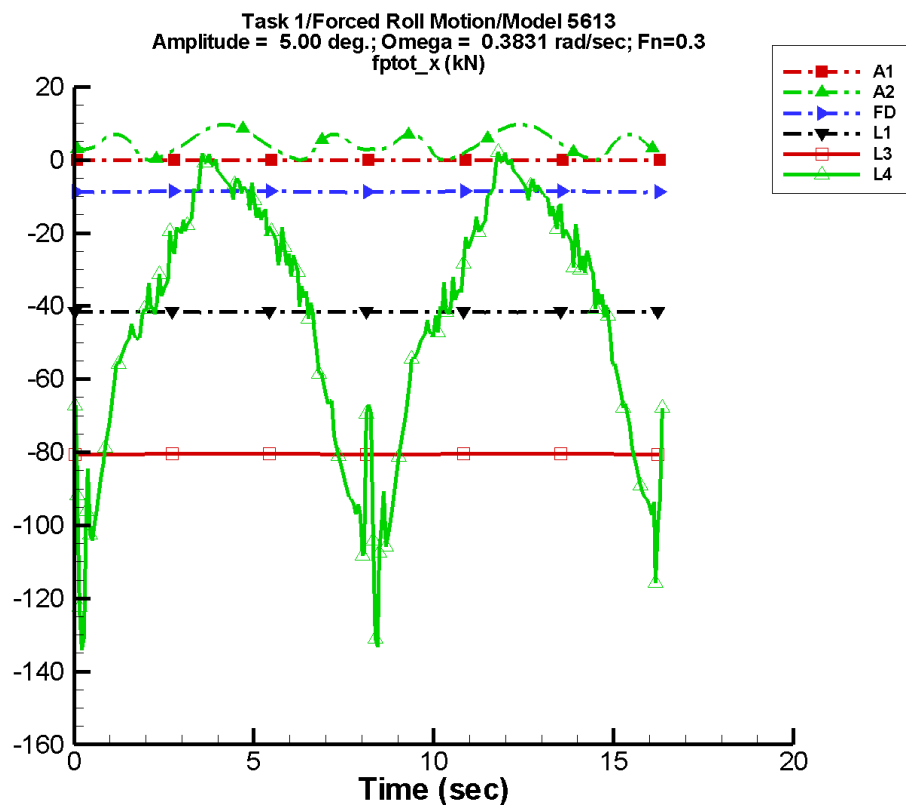
Table C–99. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.01E-06	9.63E-03	101	4.99E-06	40
A2	88.7	3.19	-44	39.8	-86
FD	1.74	3.69E-02	5	8.36	-89
L1	-39.1	7.51E-03	75	2.57	106
L3	-70.8	0.260	-63	1.80	-116
L4	828.	56.1	-32	787.	-102
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–100. Minimum and maximum of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-9.59E-03	9.62E-03	-9.58E-03	9.61E-03
A2	-317.	177.	2.65	136.
FD	-8.84	8.60	-8.82	8.56
L1	-41.7	-36.5	-41.7	-36.6
L3	-75.9	-65.5	-75.8	-65.7
L4	-413.	1.79E+03	-32.3	1.71E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-51. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

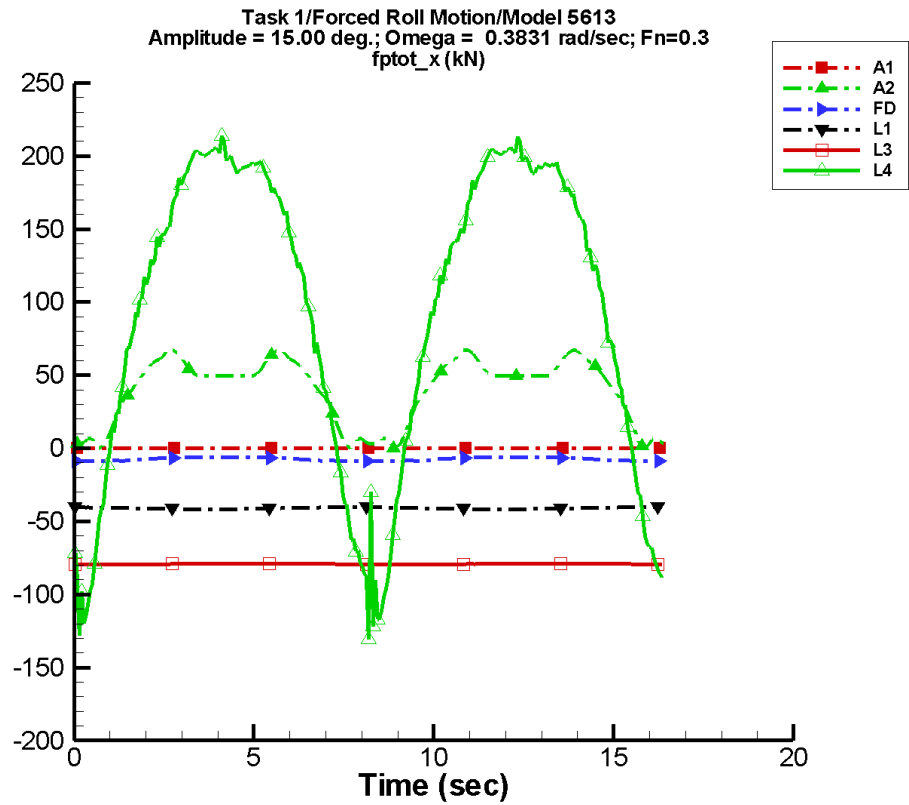
Table C–101. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.96E-07	1.46E-03	88	5.95E-06	67
A2	4.58	2.89E-02	-116	1.37	-103
FD	-8.65	6.32E-04	-76	0.171	-90
L1	-41.6	5.96E-04	68	7.40E-02	109
L3	-80.5	1.75E-02	-126	0.112	-96
L4	-43.8	0.746	-41	44.5	-93
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–102. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.46E-03	1.47E-03	-1.45E-03	1.47E-03
A2	-5.42E-02	9.66	0.610	9.43
FD	-8.84	-8.50	-8.83	-8.50
L1	-41.7	-41.5	-41.7	-41.5
L3	-80.7	-80.4	-80.7	-80.4
L4	-135.	2.26	-106.	-0.169
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-52. Time history of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

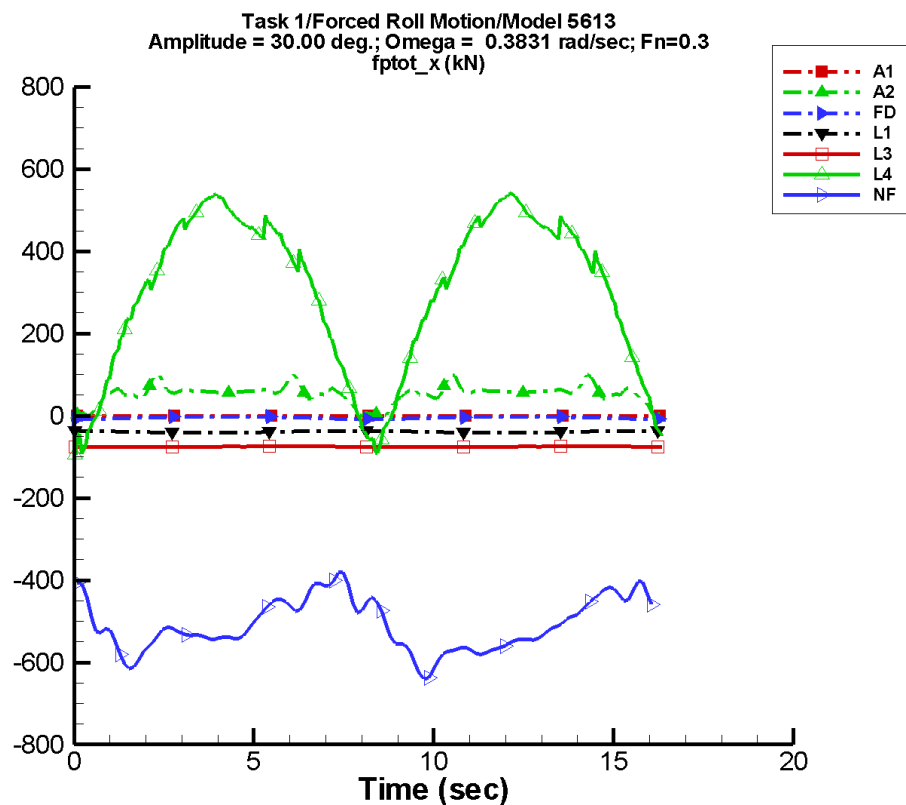
Table C–103. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.09E-06	4.39E-03	88	1.78E-05	67
A2	39.4	0.146	14	25.6	-91
FD	-7.38	7.64E-03	-53	1.51	-90
L1	-41.0	2.51E-03	81	0.667	110
L3	-79.2	1.63E-02	-114	0.211	-131
L4	91.3	3.23	-37	140.	-92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–104. Minimum and maximum of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.38E-03	4.41E-03	-4.36E-03	4.42E-03
A2	-5.77E-02	67.0	3.39	63.6
FD	-8.84	-5.98	-8.81	-6.00
L1	-41.7	-40.3	-41.7	-40.3
L3	-79.6	-78.9	-79.6	-78.9
L4	-143.	214.	-105.	205.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NSHIPMO.

Figure C-53. Time history of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

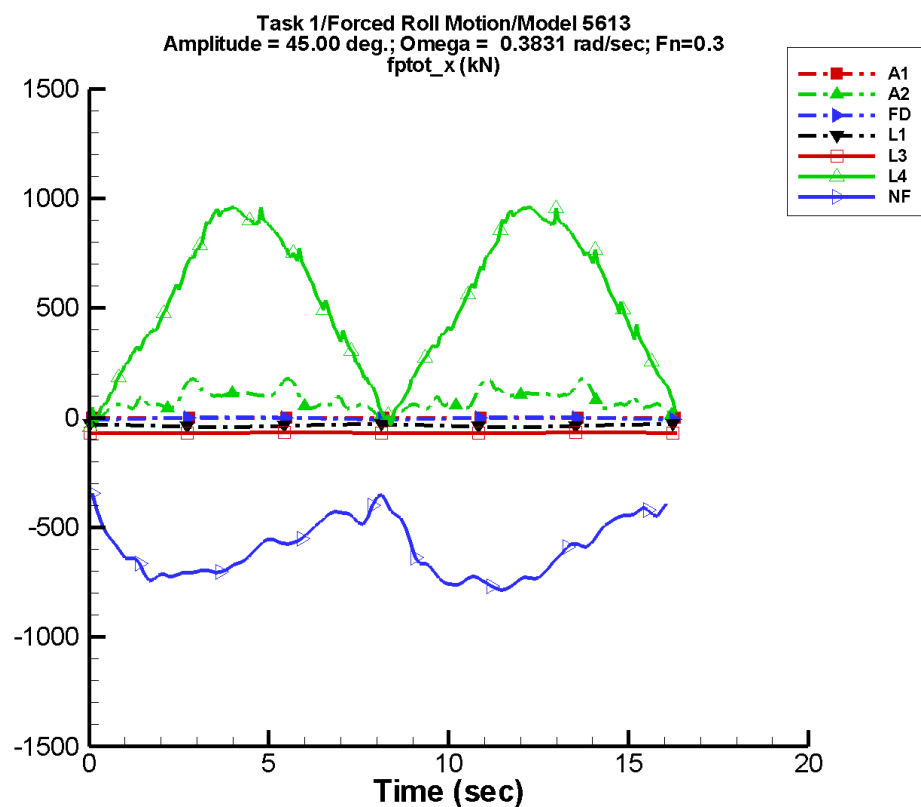
Table C–105. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.18E-06	8.77E-03	88	3.57E-05	67
A2	52.1	0.280	-28	18.3	-89
FD	-5.09	2.02E-02	-62	3.02	-90
L1	-39.1	5.51E-03	83	2.67	110
L3	-75.3	1.51E-02	-136	0.609	-160
L4	297.	7.16	-45	256.	-95
NF	-507.	18.6	5	75.4	122
NS	—	—	—	—	—

Table C–106. Minimum and maximum of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-8.75E-03	8.83E-03	-8.72E-03	8.84E-03
A2	-2.08E-02	101.	2.63	75.4
FD	-8.84	-2.55	-8.80	-2.58
L1	-41.8	-36.4	-41.8	-36.5
L3	-75.9	-74.6	-75.9	-74.6
L4	-97.7	540.	-82.7	534.
NF	-642.	-381.	-609.	-408.
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NSHIPMO.

Figure C-54. Time history of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

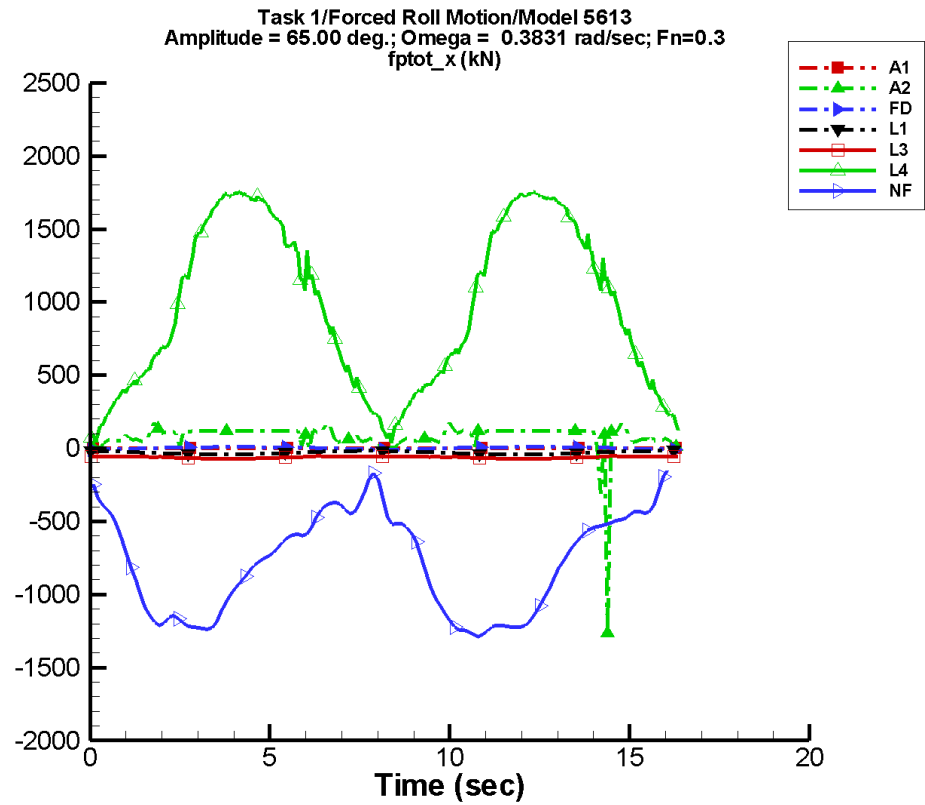
Table C–107. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.26E-06	1.32E-02	88	5.35E-05	67
A2	79.5	0.177	-24	47.2	-93
FD	-2.39	8.57E-03	-62	5.27	-90
L1	-36.0	8.61E-03	85	6.00	110
L3	-68.9	1.17E-02	-144	1.33	-166
L4	536.	3.68	-51	426.	-98
NF	-596.	23.3	-19	166.	108
NS	—	—	—	—	—

Table C–108. Minimum and maximum of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.31E-02	1.32E-02	-1.31E-02	1.33E-02
A2	4.88E-02	177.	6.87	142.
FD	-8.83	3.05	-8.72	2.91
L1	-42.0	-29.9	-41.9	-30.0
L3	-70.3	-67.3	-70.2	-67.4
L4	-41.1	961.	-20.7	953.
NF	-784.	-347.	-764.	-407.
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NSHIPMO.

Figure C-55. Time history of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

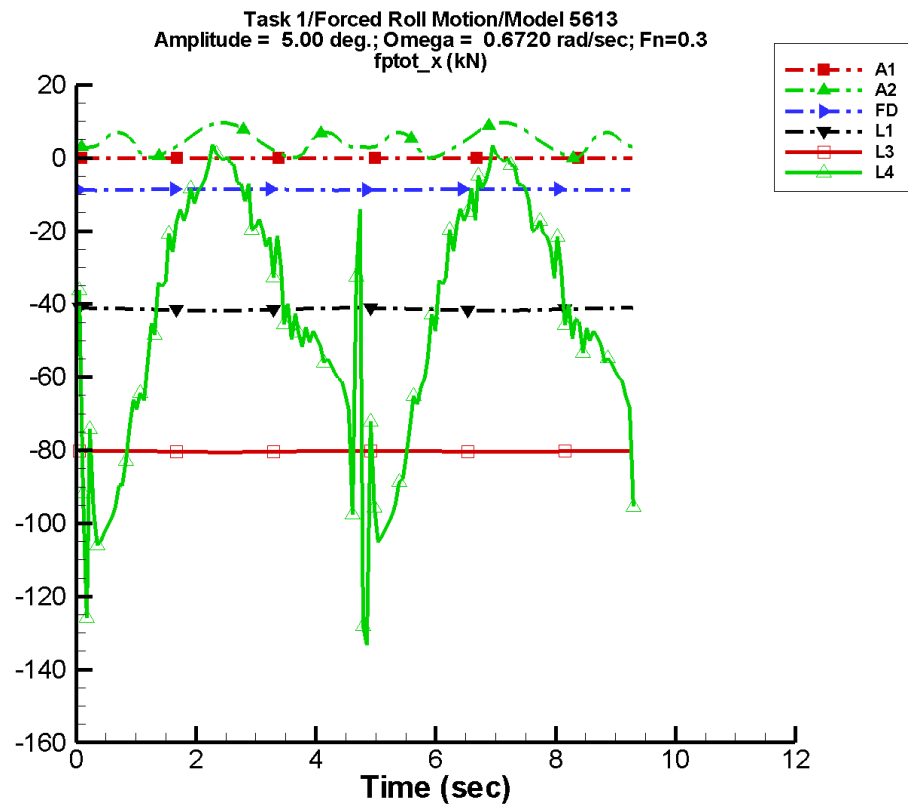
Table C–109. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.05E-06	1.90E-02	88	7.73E-05	67
A2	80.3	18.9	-50	46.0	-68
FD	1.77	8.13E-02	-57	8.24	-90
L1	-29.8	1.26E-02	85	12.5	110
L3	-61.6	0.213	-38	7.70	106
L4	965.	0.320	-170	788.	-101
NF	-773.	40.3	3	481.	106
NS	—	—	—	—	—

Table C–110. Minimum and maximum of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.90E-02	1.91E-02	-1.89E-02	1.92E-02
A2	-1.26E+03	177.	-139.	136.
FD	-8.82	8.60	-8.50	8.50
L1	-42.3	-17.2	-42.2	-17.3
L3	-71.2	-53.3	-71.1	-53.7
L4	39.1	1.76E+03	78.5	1.74E+03
NF	-1.29E+03	-148.	-1.26E+03	-245.
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-56. Time history of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

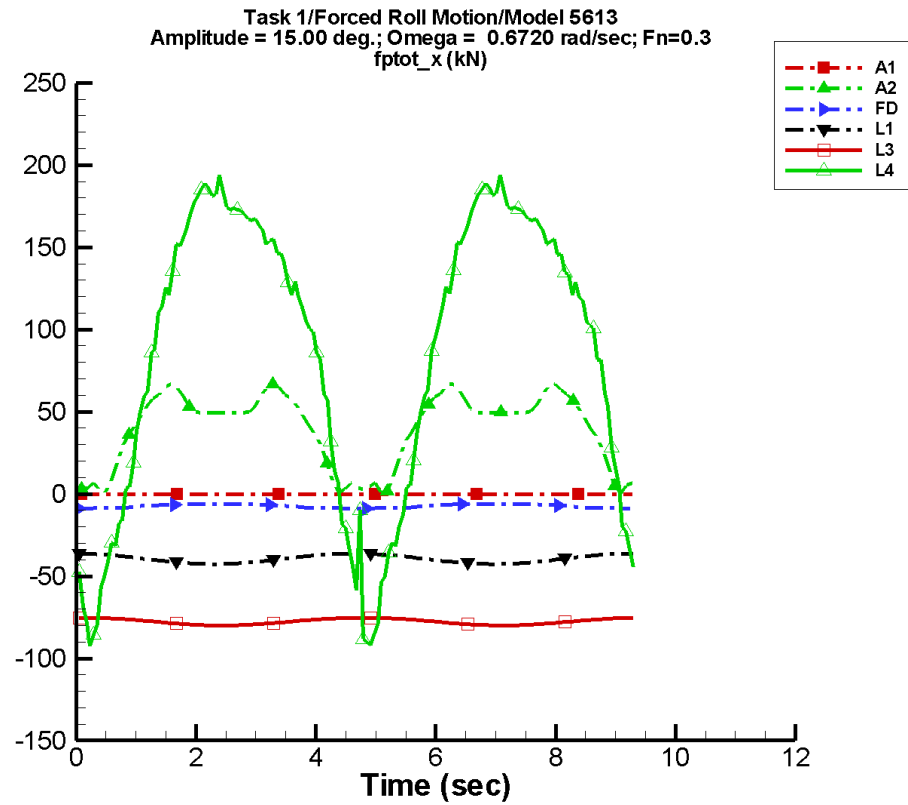
Table C–111. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.14E-07	2.43E-03	75	9.44E-07	31
A2	4.48	0.223	-176	1.15	-109
FD	-8.66	6.07E-04	-14	0.170	-90
L1	-41.4	2.18E-03	89	0.358	93
L3	-80.3	2.70E-02	127	0.155	78
L4	-44.2	0.630	-102	43.2	-107
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–112. Minimum and maximum of F_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.56E-03	2.50E-03	-2.38E-03	2.39E-03
A2	-5.14E-02	9.65	1.77	8.87
FD	-8.84	-8.50	-8.82	-8.50
L1	-41.8	-41.0	-41.8	-41.0
L3	-80.5	-80.1	-80.5	-80.1
L4	-134.	3.71	-101.	-0.446
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA and NSHIPMO.

Figure C-57. Time history of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

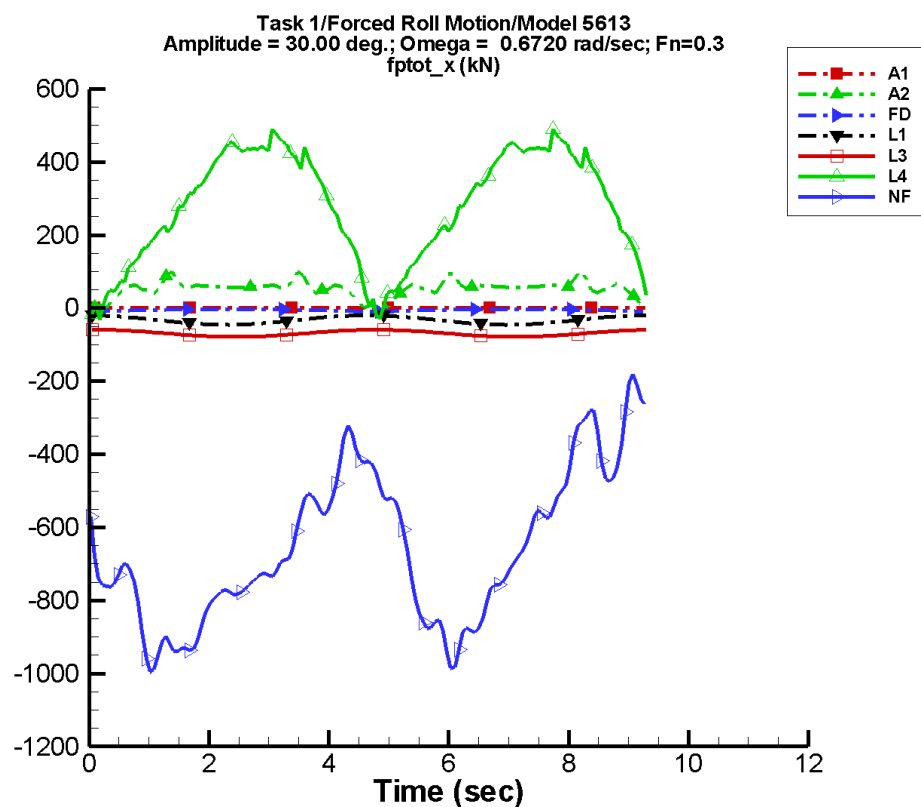
Table C–113. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-6.42E-07	7.28E-03	75	2.83E-06	31
A2	39.9	1.30	-1	26.9	-94
FD	-7.39	3.91E-03	-19	1.51	-90
L1	-39.4	6.04E-03	81	3.22	93
L3	-77.6	2.99E-02	123	2.30	81
L4	83.3	1.31	-140	120.	-108
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–114. Minimum and maximum of F_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.68E-03	7.49E-03	-7.13E-03	7.17E-03
A2	2.17E-02	67.0	2.55	61.1
FD	-8.84	-5.98	-8.79	-6.00
L1	-42.7	-36.2	-42.6	-36.3
L3	-80.0	-75.4	-80.0	-75.4
L4	-92.4	194.	-70.3	185.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NSHIPMO.

Figure C-58. Time history of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

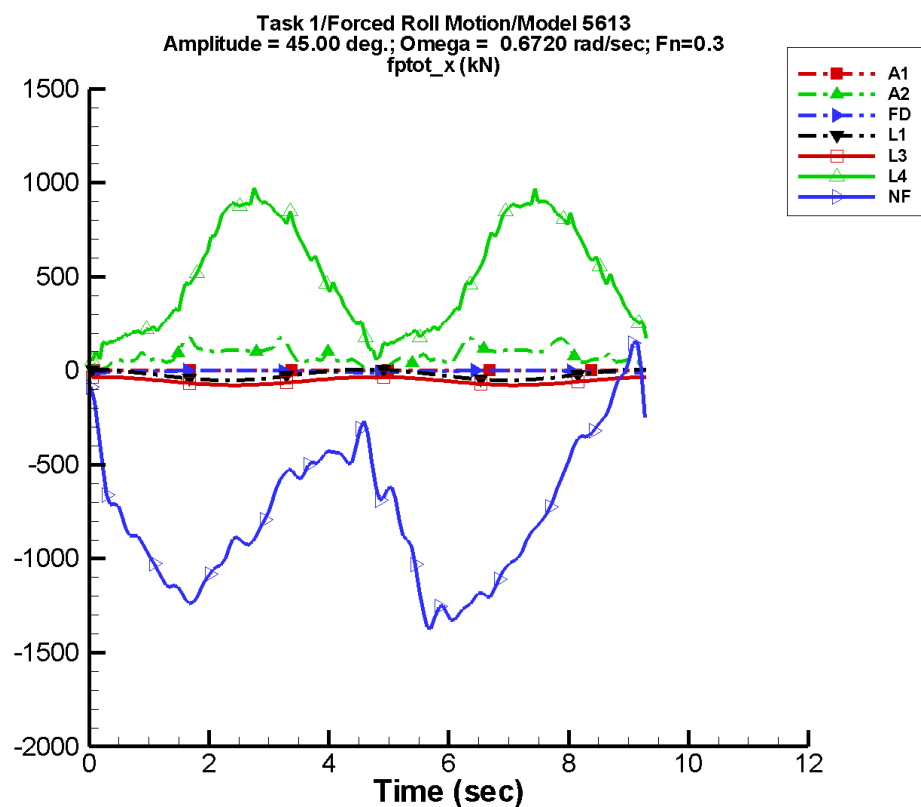
Table C–115. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.28E-06	1.46E-02	75	5.66E-06	31
A2	52.5	1.20	-14	19.5	-92
FD	-5.11	3.95E-02	-29	3.03	-89
L1	-32.8	1.19E-02	80	12.9	93
L3	-68.9	3.24E-02	116	9.68	82
L4	274.	1.64	-141	202.	-121
NF	-532.	29.5	-11	253.	144
NS	—	—	—	—	—

Table C–116. Minimum and maximum of F_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.54E-02	1.50E-02	-1.43E-02	1.43E-02
A2	0.263	101.	8.37	67.4
FD	-8.84	-2.55	-8.71	-2.58
L1	-45.7	-19.9	-45.5	-20.1
L3	-78.5	-59.4	-78.4	-59.5
L4	-32.4	491.	-9.40	468.
NF	-985.	-137.	-922.	-199.
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NSHIPMO.

Figure C-59. Time history of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

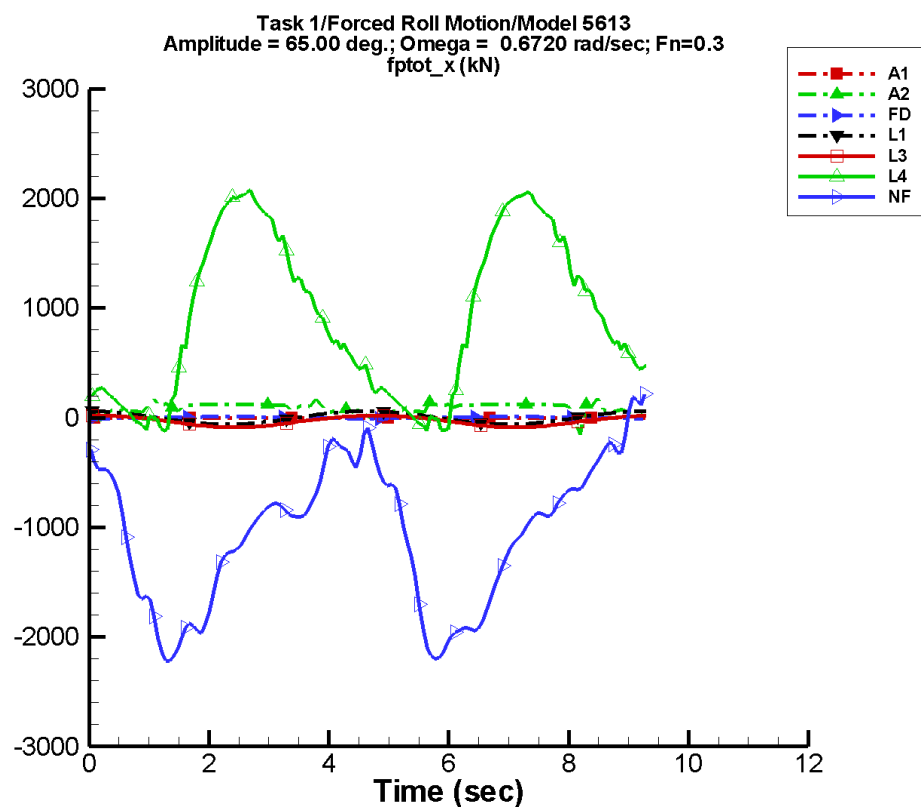
Table C–117. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.93E-06	2.18E-02	75	8.49E-06	31
A2	80.1	0.625	15	48.8	-96
FD	-2.39	1.41E-02	-30	5.29	-90
L1	-21.7	1.77E-02	80	29.0	93
L3	-54.6	3.35E-02	109	21.9	82
L4	497.	1.59	40	392.	-127
NF	-695.	31.6	54	502.	136
NS	—	—	—	—	—

Table C–118. Minimum and maximum of F_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.30E-02	2.25E-02	-2.14E-02	2.15E-02
A2	-4.10E-02	177.	12.7	137.
FD	-8.83	3.05	-8.45	2.72
L1	-50.8	7.28	-50.2	6.84
L3	-77.0	-32.8	-76.4	-32.9
L4	55.7	974.	76.2	905.
NF	-1.37E+03	156.	-1.31E+03	-10.3
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NSHIPMO.

Figure C-60. Time history of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

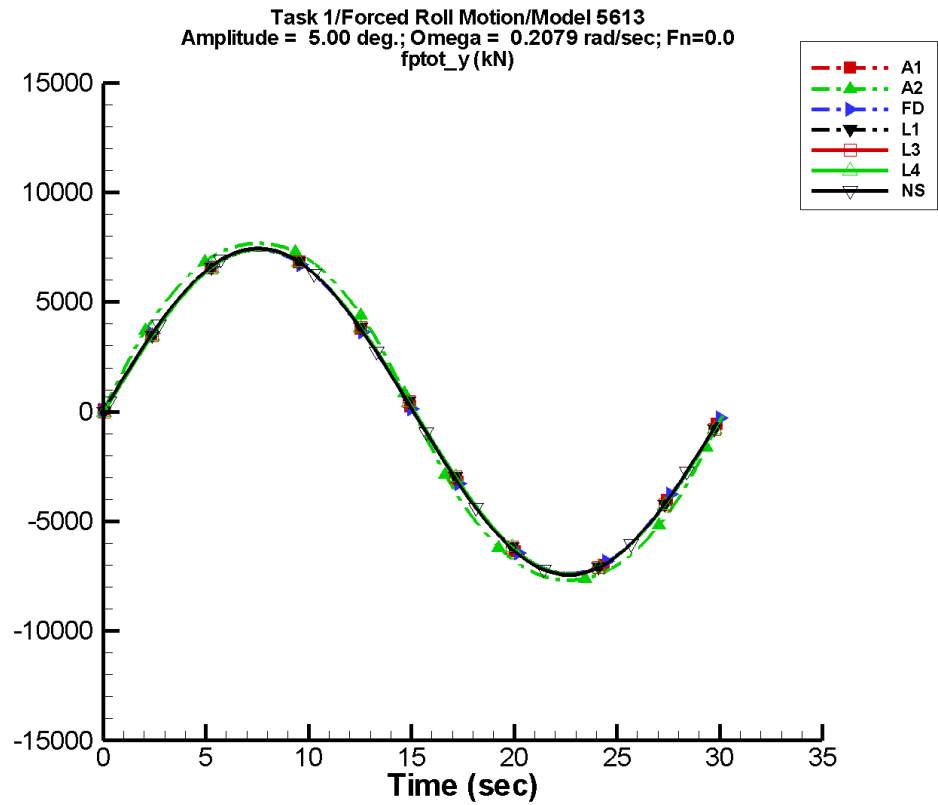
Table C–119. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.78E-06	3.15E-02	75	1.23E-05	31
A2	87.4	7.30	-51	40.9	-86
FD	1.70	0.114	-28	8.28	-89
L1	-5.18E-02	2.53E-02	79	60.5	93
L3	-31.9	0.106	143	53.9	82
L4	921.	7.85	1	1.00E+03	-128
NF	-928.	51.7	-55	902.	141
NS	—	—	—	—	—

Table C–120. Minimum and maximum of F_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.33E-02	3.25E-02	-3.09E-02	3.11E-02
A2	-152.	177.	15.9	124.
FD	-8.85	8.60	-8.04	8.51
L1	-60.6	60.5	-59.6	59.5
L3	-87.6	19.1	-86.7	19.2
L4	-121.	2.07E+03	-62.5	2.02E+03
NF	-2.25E+03	436.	-2.10E+03	189.
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-61. Time history of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

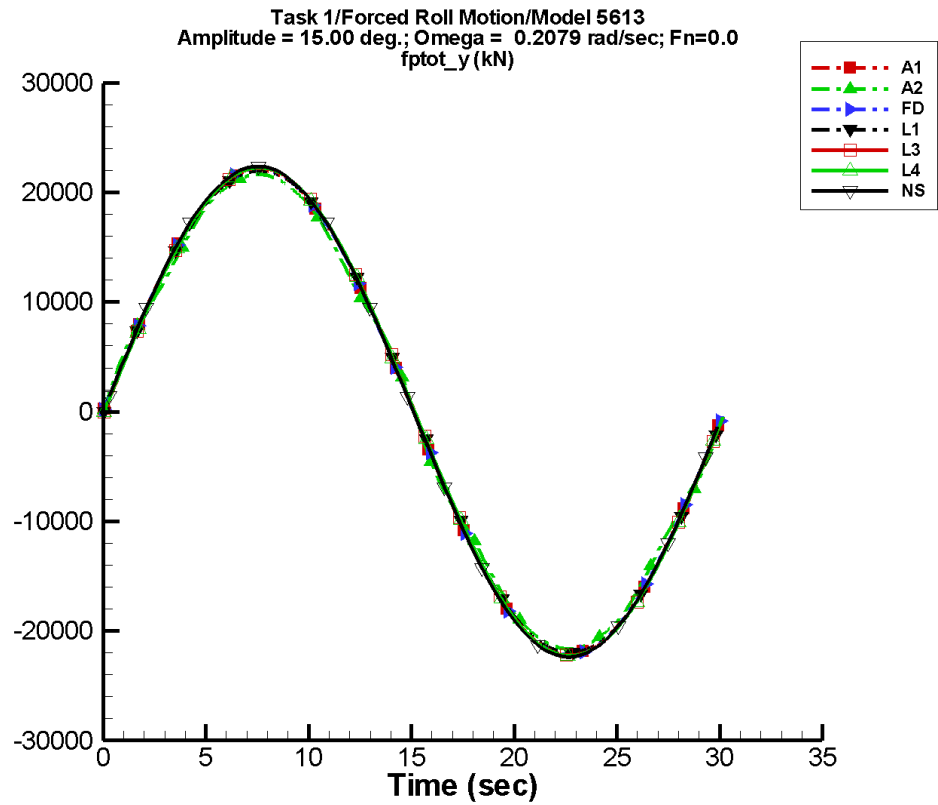
Table C–121. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.110	7.44E+03	0	0.354	62
A2	9.65	7.98E+03	0	55.1	62
FD	-0.245	7.38E+03	0	1.09	-115
L1	0.145	7.41E+03	-1	0.567	87
L3	1.62E-02	7.41E+03	-1	6.62E-02	87
L4	-8.04E-02	7.41E+03	-1	1.15	-120
NF	—	—	—	—	—
NS	1.21E-03	7.45E+03	0	1.68E-03	122

Table C–122. Minimum and maximum of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.44E+03	7.44E+03	-7.43E+03	7.44E+03
A2	-7.68E+03	7.68E+03	-7.68E+03	7.69E+03
FD	-7.39E+03	7.39E+03	-7.38E+03	7.38E+03
L1	-7.40E+03	7.40E+03	-7.40E+03	7.40E+03
L3	-7.41E+03	7.41E+03	-7.41E+03	7.41E+03
L4	-7.42E+03	7.42E+03	-7.41E+03	7.41E+03
NF	—	—	—	—
NS	-7.45E+03	7.45E+03	-7.38E+03	7.38E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-62. Time history of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

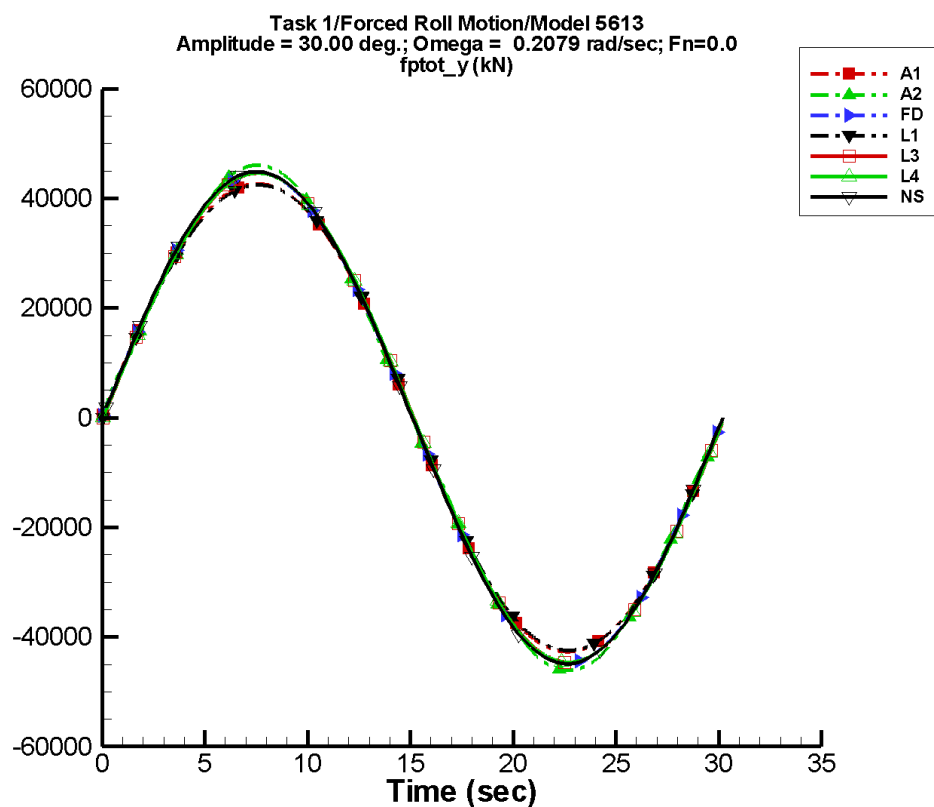
Table C–123. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.74	2.21E+04	0	9.86	59
A2	12.5	2.15E+04	0	33.7	127
FD	-0.221	2.22E+04	0	0.701	-104
L1	3.91	2.20E+04	-1	15.2	87
L3	0.197	2.22E+04	-1	0.602	87
L4	-9.74E-02	2.22E+04	-1	6.50	-121
NF	—	—	—	—	—
NS	2.64E-02	2.24E+04	0	1.27E-02	-129

Table C–124. Minimum and maximum of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.21E+04	2.21E+04	-2.21E+04	2.21E+04
A2	-2.17E+04	2.17E+04	-2.16E+04	2.16E+04
FD	-2.22E+04	2.22E+04	-2.22E+04	2.22E+04
L1	-2.20E+04	2.20E+04	-2.20E+04	2.20E+04
L3	-2.22E+04	2.22E+04	-2.22E+04	2.22E+04
L4	-2.23E+04	2.23E+04	-2.23E+04	2.23E+04
NF	—	—	—	—
NS	-2.24E+04	2.24E+04	-2.21E+04	2.21E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-63. Time history of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

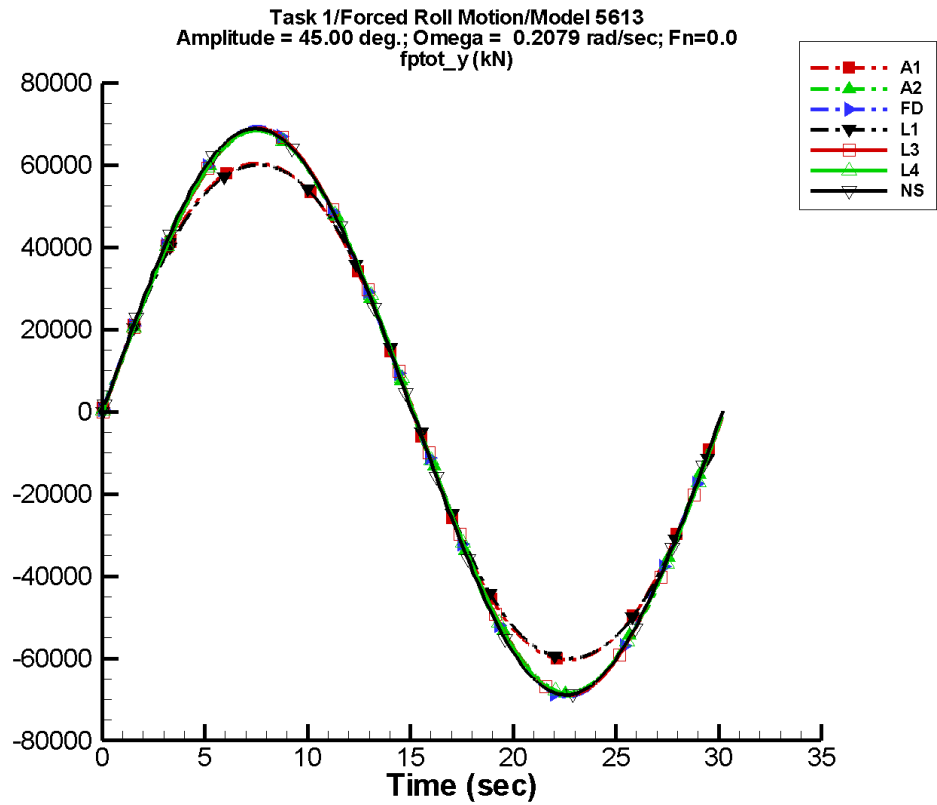
Table C–125. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	12.9	4.32E+04	0	78.2	59
A2	-17.5	4.52E+04	0	128.	-130
FD	-3.11	4.46E+04	0	16.2	-129
L1	30.6	4.30E+04	-1	120.	87
L3	-3.55	4.45E+04	-1	14.9	-92
L4	-0.862	4.46E+04	-1	18.6	-100
NF	—	—	—	—	—
NS	0.248	4.48E+04	0	0.164	-113

Table C–126. Minimum and maximum of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.27E+04	4.27E+04	-4.26E+04	4.27E+04
A2	-4.61E+04	4.61E+04	-4.60E+04	4.61E+04
FD	-4.47E+04	4.47E+04	-4.46E+04	4.46E+04
L1	-4.25E+04	4.25E+04	-4.24E+04	4.24E+04
L3	-4.46E+04	4.46E+04	-4.46E+04	4.46E+04
L4	-4.46E+04	4.46E+04	-4.46E+04	4.46E+04
NF	—	—	—	—
NS	-4.49E+04	4.49E+04	-4.47E+04	4.47E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-64. Time history of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

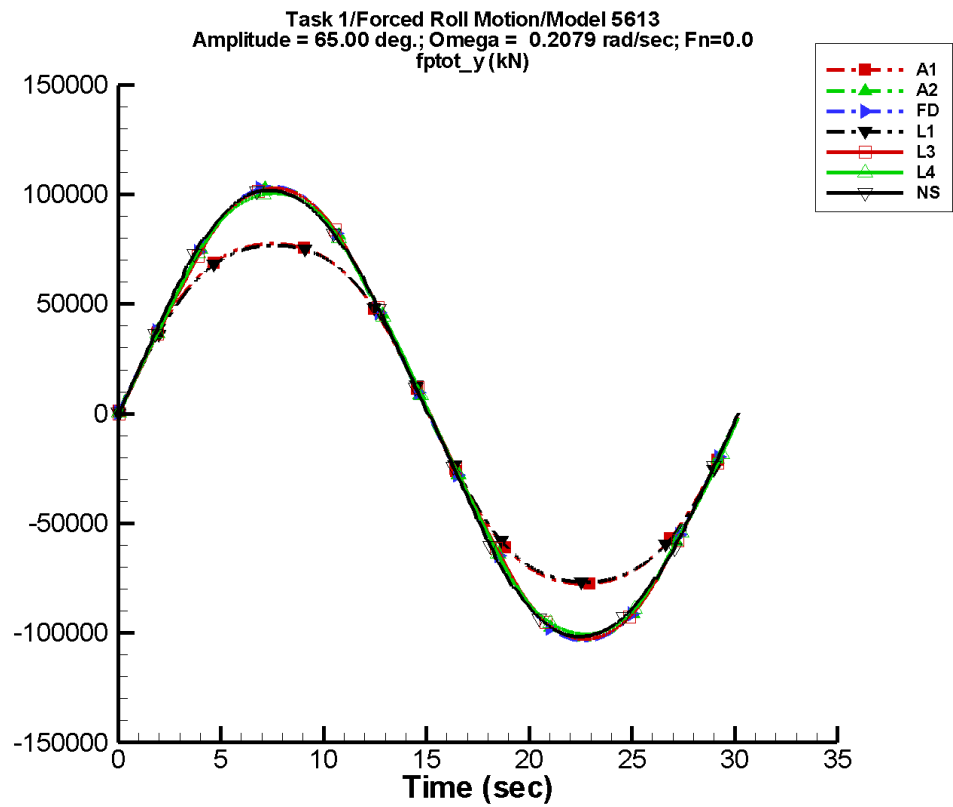
Table C–127. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	42.2	6.20E+04	0	259.	59
A2	-18.7	6.78E+04	0	70.3	-128
FD	-23.8	6.83E+04	0	126.	-128
L1	101.	6.17E+04	-1	398.	87
L3	-43.0	6.80E+04	-1	173.	-92
L4	-21.8	6.78E+04	-1	113.	-78
NF	—	—	—	—	—
NS	0.776	6.84E+04	0	0.652	-92

Table C–128. Minimum and maximum of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.04E+04	6.04E+04	-6.03E+04	6.04E+04
A2	-6.86E+04	6.86E+04	-6.85E+04	6.85E+04
FD	-6.93E+04	6.93E+04	-6.93E+04	6.93E+04
L1	-6.00E+04	6.00E+04	-6.00E+04	6.00E+04
L3	-6.90E+04	6.90E+04	-6.89E+04	6.89E+04
L4	-6.84E+04	6.84E+04	-6.83E+04	6.83E+04
NF	—	—	—	—
NS	-6.89E+04	6.89E+04	-6.87E+04	6.87E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-65. Time history of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

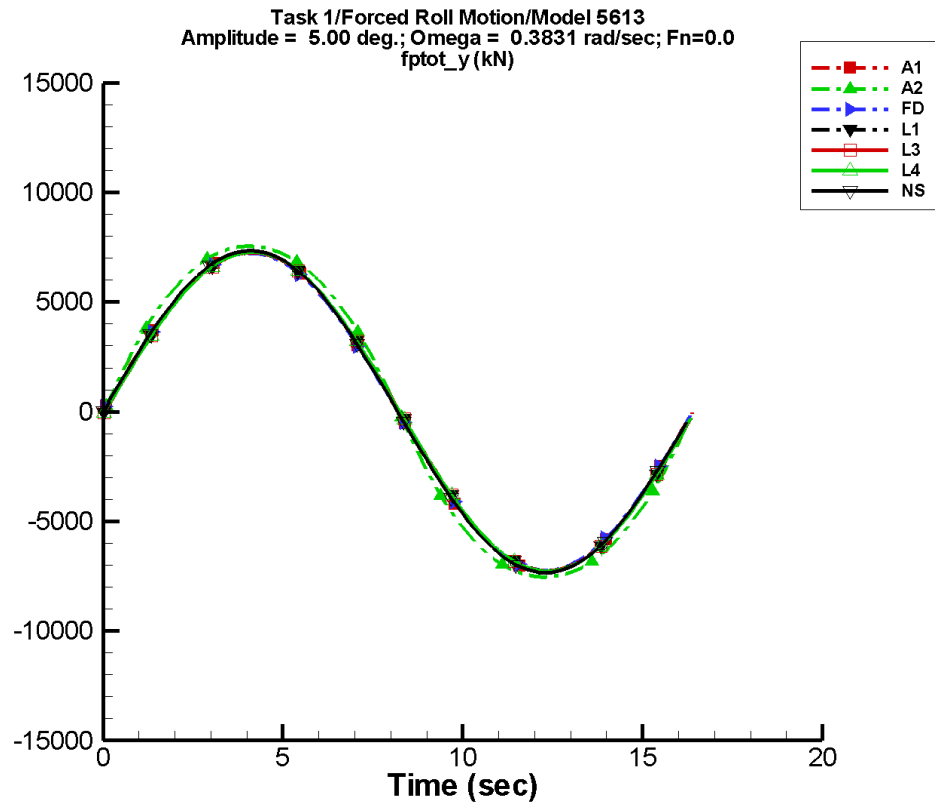
Table C–129. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	122.	8.22E+04	0	750.	59
A2	-56.6	1.02E+05	0	326.	-125
FD	-62.7	1.02E+05	0	328.	-116
L1	293.	8.16E+04	-1	1.15E+03	87
L3	-122.	1.02E+05	-1	472.	-93
L4	-67.6	1.01E+05	0	282.	-71
NF	—	—	—	—	—
NS	46.3	1.02E+05	1	64.5	-85

Table C–130. Minimum and maximum of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.76E+04	7.76E+04	-7.75E+04	7.77E+04
A2	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
FD	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
L1	-7.68E+04	7.68E+04	-7.68E+04	7.68E+04
L3	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
L4	-1.01E+05	1.01E+05	-1.01E+05	1.01E+05
NF	—	—	—	—
NS	-1.02E+05	1.02E+05	-1.02E+05	1.02E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-66. Time history of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

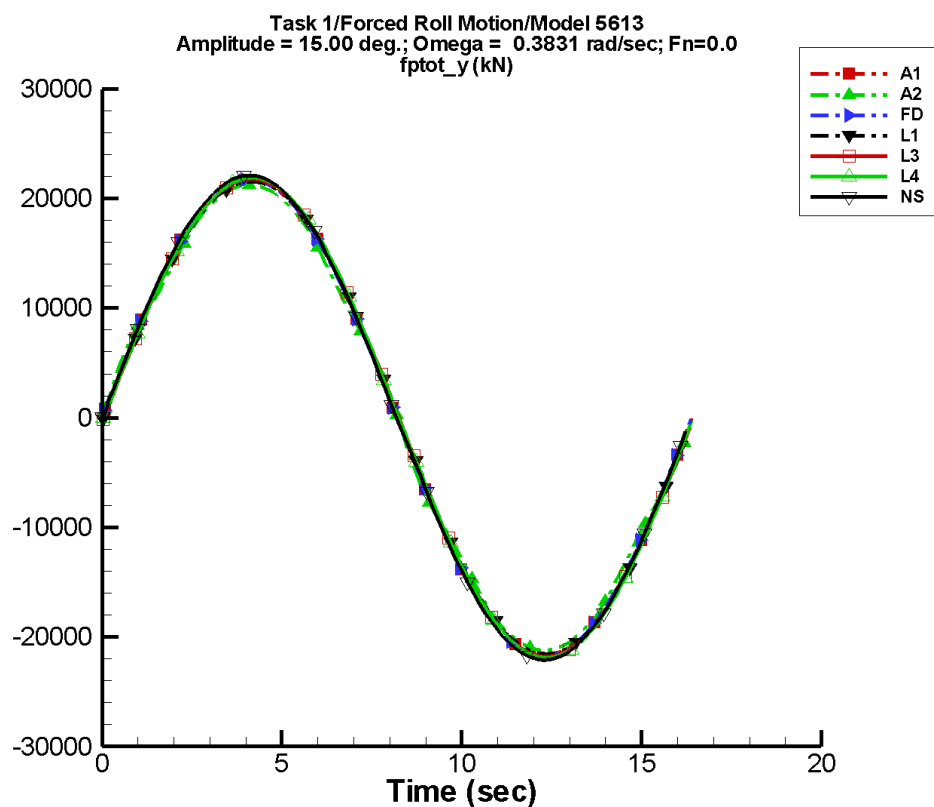
Table C–131. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.268	7.30E+03	0	0.362	141
A2	9.16	7.84E+03	0	55.2	58
FD	-0.222	7.23E+03	0	1.44	-105
L1	0.220	7.26E+03	-1	0.338	147
L3	4.47E-02	7.26E+03	-1	3.45E-02	132
L4	0.697	7.27E+03	-1	1.42	-142
NF	—	—	—	—	—
NS	-4.18E-03	7.34E+03	0	2.09E-02	-11

Table C–132. Minimum and maximum of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.29E+03	7.30E+03	-7.26E+03	7.32E+03
A2	-7.54E+03	7.55E+03	-7.52E+03	7.57E+03
FD	-7.23E+03	7.23E+03	-7.21E+03	7.21E+03
L1	-7.26E+03	7.26E+03	-7.25E+03	7.25E+03
L3	-7.26E+03	7.26E+03	-7.25E+03	7.25E+03
L4	-7.28E+03	7.28E+03	-7.27E+03	7.27E+03
NF	—	—	—	—
NS	-7.35E+03	7.35E+03	-7.27E+03	7.27E+03

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Data identically zero, insufficient, or not available from NFA.

Figure C-67. Time history of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

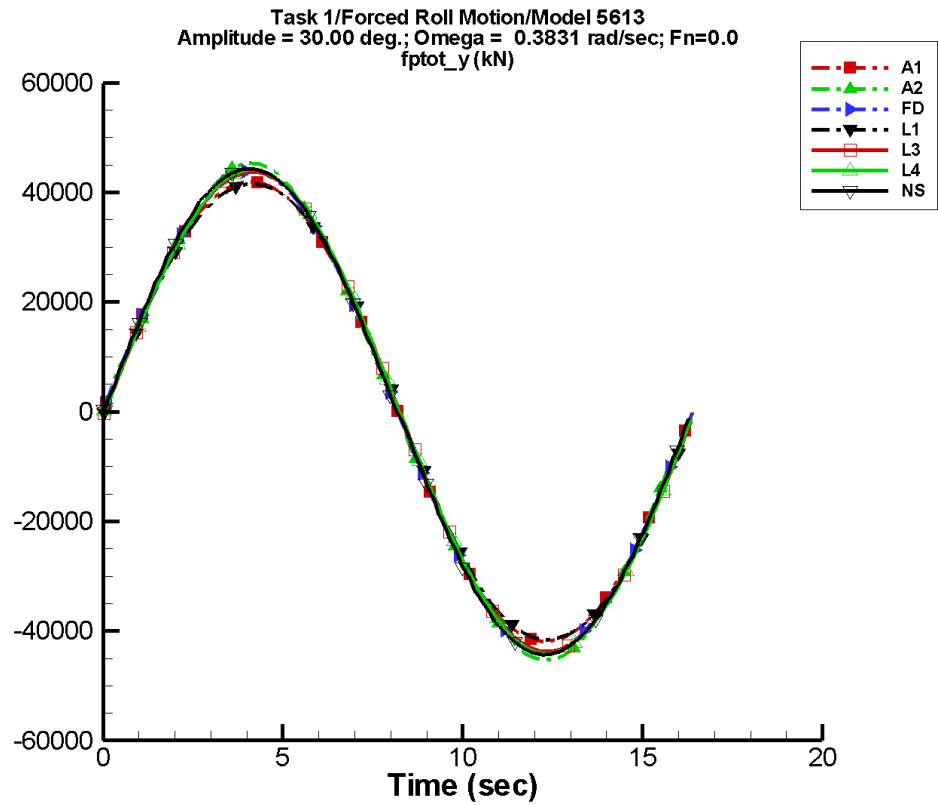
Table C–133. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.88	2.17E+04	0	9.20	67
A2	13.6	2.10E+04	0	33.8	130
FD	-0.346	2.17E+04	0	1.66	-101
L1	5.36	2.16E+04	-1	9.28	148
L3	0.261	2.18E+04	-1	0.353	140
L4	4.51	2.19E+04	-1	5.75	-152
NF	—	—	—	—	—
NS	-4.55E-02	2.20E+04	0	4.67E-02	49

Table C–134. Minimum and maximum of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.16E+04	2.17E+04	-2.16E+04	2.17E+04
A2	-2.12E+04	2.13E+04	-2.11E+04	2.13E+04
FD	-2.17E+04	2.17E+04	-2.16E+04	2.16E+04
L1	-2.15E+04	2.15E+04	-2.15E+04	2.15E+04
L3	-2.18E+04	2.18E+04	-2.17E+04	2.17E+04
L4	-2.19E+04	2.19E+04	-2.19E+04	2.19E+04
NF	—	—	—	—
NS	-2.21E+04	2.21E+04	-2.19E+04	2.19E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-68. Time history of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

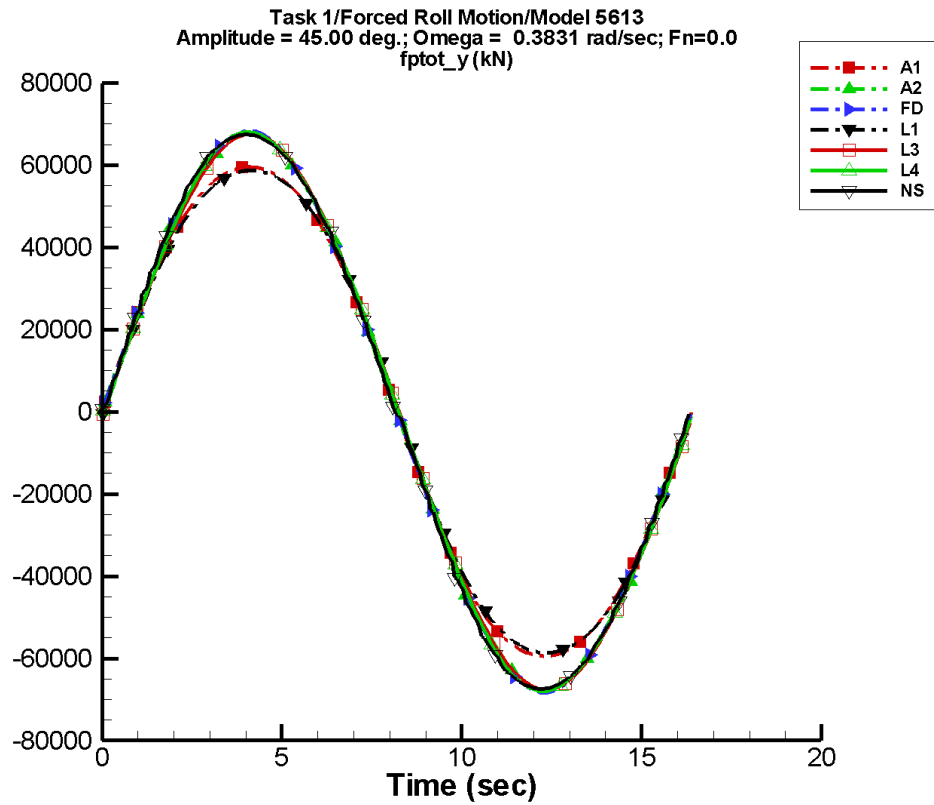
Table C–135. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	11.0	4.24E+04	0	77.8	62
A2	-14.5	4.44E+04	0	139.	-132
FD	-4.36	4.37E+04	0	29.0	-104
L1	42.0	4.20E+04	-1	73.4	148
L3	-5.50	4.37E+04	-1	9.70	-20
L4	5.12	4.39E+04	-1	5.86	-32
NF	—	—	—	—	—
NS	-0.344	4.42E+04	0	0.343	106

Table C–136. Minimum and maximum of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.19E+04	4.20E+04	-4.18E+04	4.21E+04
A2	-4.53E+04	4.53E+04	-4.51E+04	4.54E+04
FD	-4.39E+04	4.39E+04	-4.37E+04	4.37E+04
L1	-4.16E+04	4.16E+04	-4.15E+04	4.15E+04
L3	-4.38E+04	4.38E+04	-4.37E+04	4.37E+04
L4	-4.41E+04	4.41E+04	-4.41E+04	4.41E+04
NF	—	—	—	—
NS	-4.43E+04	4.43E+04	-4.41E+04	4.41E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-69. Time history of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

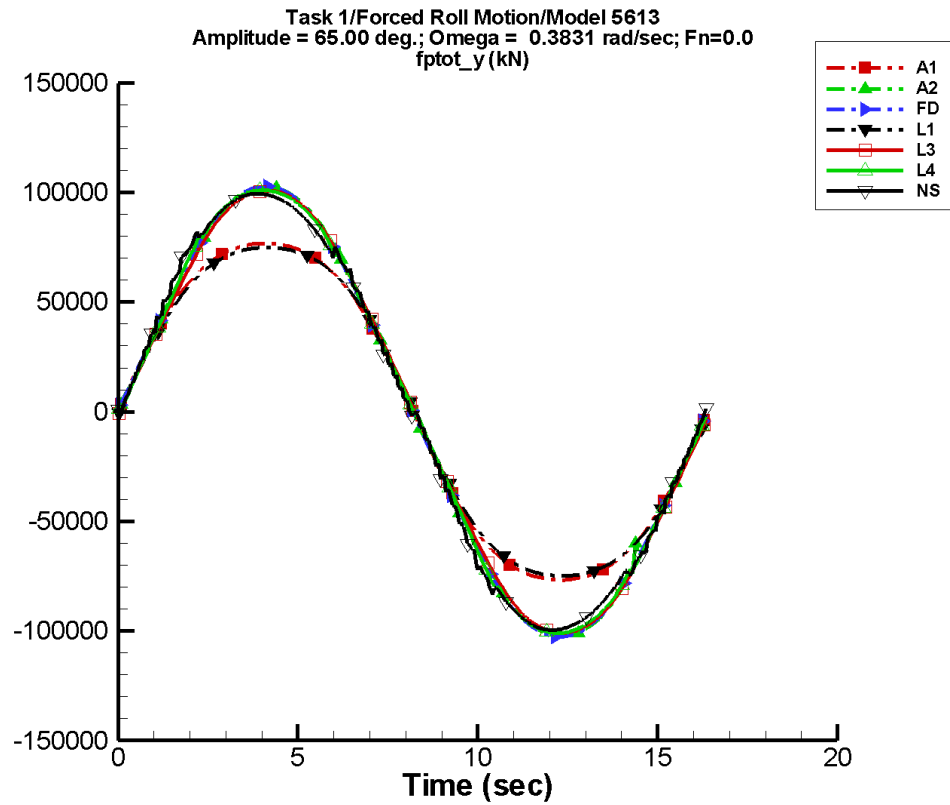
Table C–137. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	34.1	6.10E+04	0	261.	62
A2	-18.1	6.67E+04	0	90.7	-135
FD	-29.5	6.72E+04	0	197.	-103
L1	139.	6.02E+04	-1	243.	148
L3	-62.7	6.68E+04	-1	109.	-24
L4	-37.1	6.72E+04	-1	123.	-3
NF	—	—	—	—	—
NS	-1.92	6.73E+04	0	1.00	102

Table C–138. Minimum and maximum of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.95E+04	5.95E+04	-5.93E+04	5.97E+04
A2	-6.76E+04	6.77E+04	-6.73E+04	6.78E+04
FD	-6.83E+04	6.83E+04	-6.80E+04	6.80E+04
L1	-5.87E+04	5.87E+04	-5.86E+04	5.86E+04
L3	-6.76E+04	6.76E+04	-6.75E+04	6.75E+04
L4	-6.80E+04	6.80E+04	-6.79E+04	6.79E+04
NF	—	—	—	—
NS	-6.74E+04	6.74E+04	-6.73E+04	6.73E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-70. Time history of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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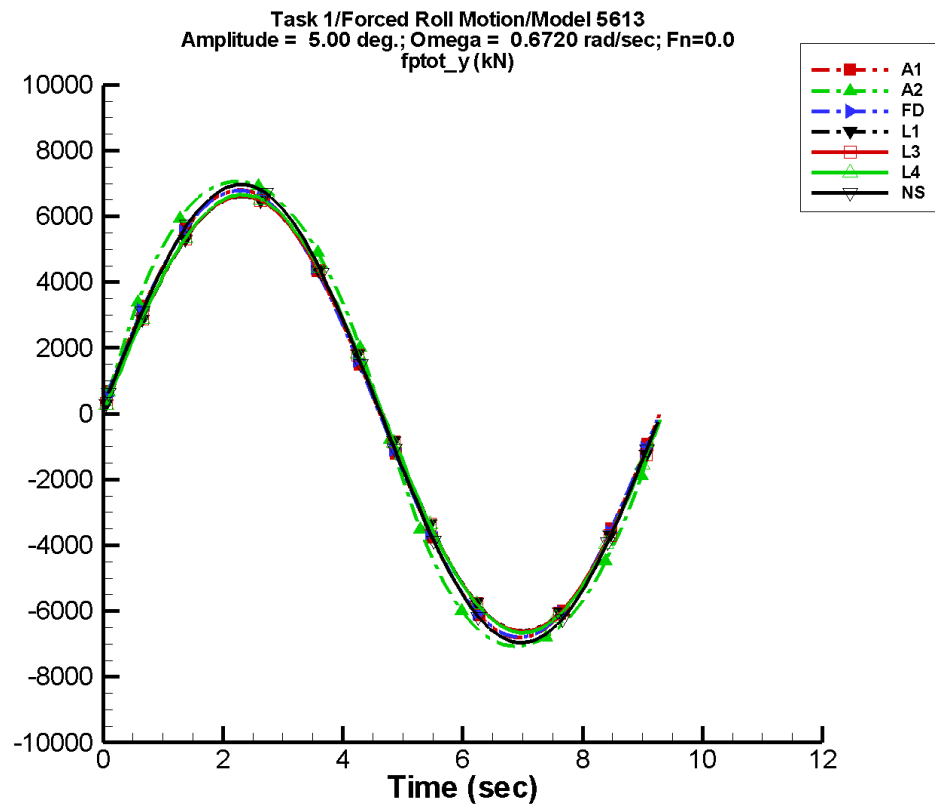
Table C–139. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	97.0	8.11E+04	0	761.	61
A2	-104.	1.01E+05	0	241.	-65
FD	-61.4	1.01E+05	0	482.	-108
L1	401.	7.92E+04	-1	702.	148
L3	-147.	9.99E+04	-1	276.	-39
L4	-80.8	1.01E+05	0	299.	-19
NF	—	—	—	—	—
NS	-28.1	1.00E+05	1	30.6	113

Table C–140. Minimum and maximum of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.67E+04	7.68E+04	-7.66E+04	7.71E+04
A2	-1.02E+05	1.02E+05	-1.02E+05	1.02E+05
FD	-1.03E+05	1.03E+05	-1.02E+05	1.02E+05
L1	-7.49E+04	7.49E+04	-7.49E+04	7.49E+04
L3	-1.01E+05	1.01E+05	-1.01E+05	1.01E+05
L4	-1.01E+05	1.01E+05	-1.01E+05	1.01E+05
NF	—	—	—	—
NS	-9.96E+04	9.95E+04	-9.95E+04	9.94E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-71. Time history of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

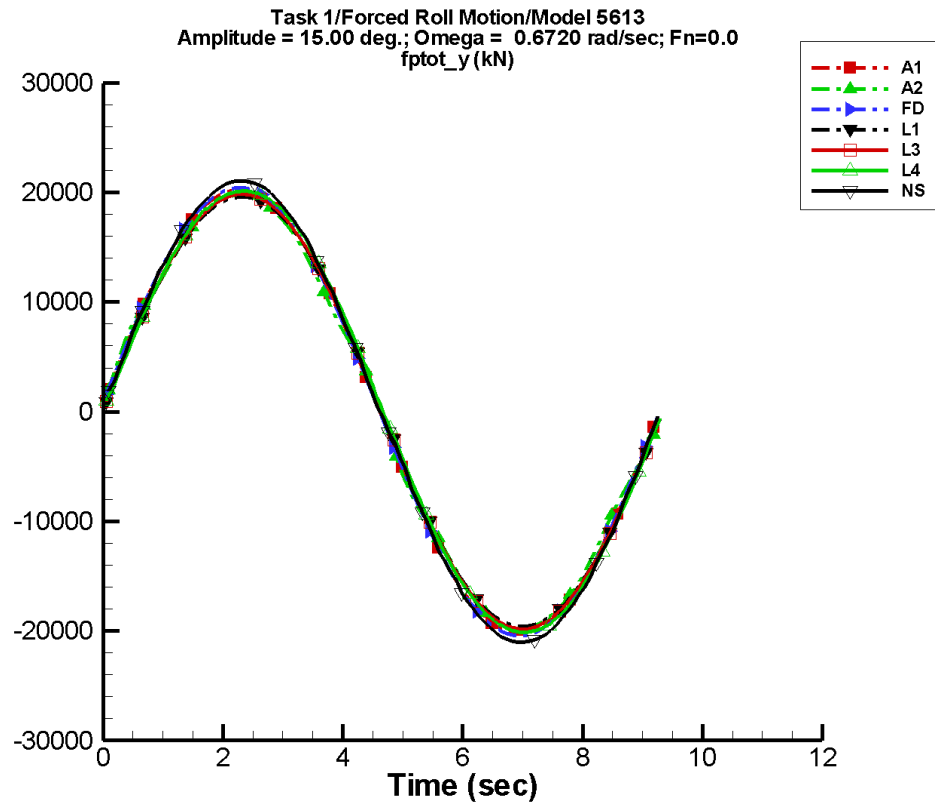
Table C–141. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.19E-02	6.81E+03	2	1.52	63
A2	17.9	7.37E+03	2	41.3	37
FD	-0.574	6.79E+03	2	1.10	-45
L1	8.68E-02	6.61E+03	0	0.464	48
L3	9.07E-02	6.62E+03	1	5.27E-02	-20
L4	5.72	6.67E+03	0	7.08	164
NF	—	—	—	—	—
NS	0.255	6.96E+03	2	0.330	-18

Table C–142. Minimum and maximum of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.80E+03	6.80E+03	-6.73E+03	6.73E+03
A2	-7.07E+03	7.06E+03	-7.01E+03	7.01E+03
FD	-6.80E+03	6.79E+03	-6.72E+03	6.72E+03
L1	-6.61E+03	6.61E+03	-6.58E+03	6.58E+03
L3	-6.62E+03	6.62E+03	-6.59E+03	6.59E+03
L4	-6.66E+03	6.67E+03	-6.63E+03	6.63E+03
NF	—	—	—	—
NS	-6.96E+03	6.96E+03	-6.89E+03	6.89E+03

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Data identically zero, insufficient, or not available from NFA.

Figure C-72. Time history of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

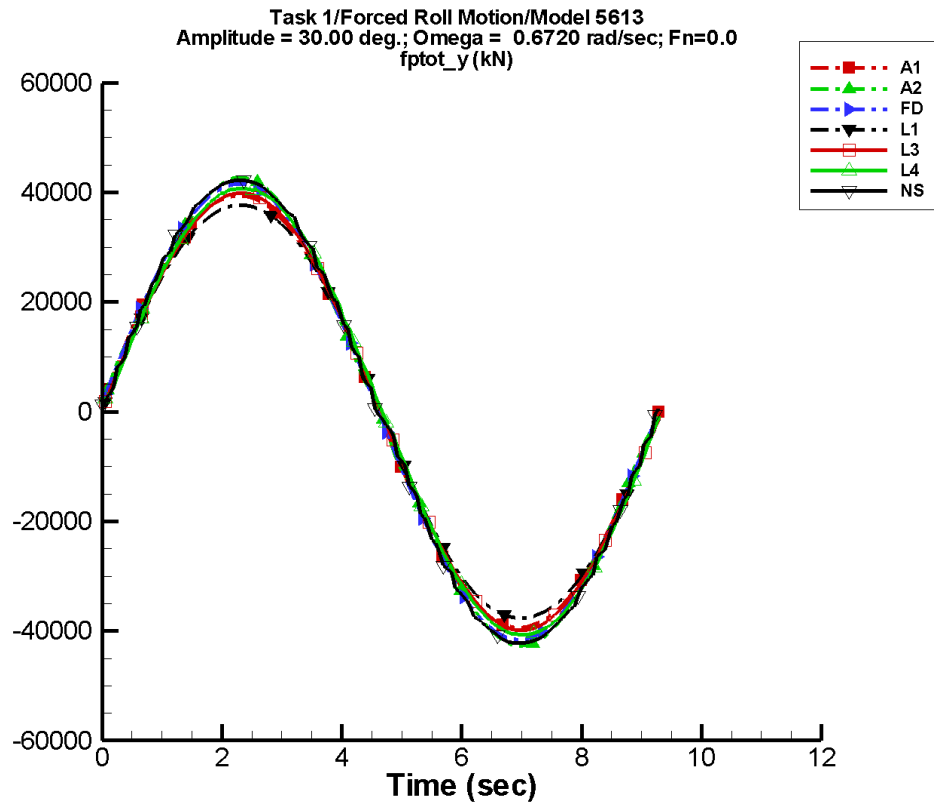
Table C–143. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.95	2.03E+04	2	9.60	58
A2	4.87	1.96E+04	3	49.2	113
FD	-1.31	2.04E+04	2	2.90	-57
L1	0.193	1.96E+04	0	13.3	54
L3	0.300	1.99E+04	1	0.418	36
L4	26.5	2.02E+04	0	46.7	138
NF	—	—	—	—	—
NS	0.593	2.10E+04	1	1.28	-39

Table C–144. Minimum and maximum of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.02E+04	2.02E+04	-2.00E+04	2.00E+04
A2	-1.98E+04	1.98E+04	-1.96E+04	1.96E+04
FD	-2.04E+04	2.04E+04	-2.02E+04	2.02E+04
L1	-1.96E+04	1.96E+04	-1.95E+04	1.95E+04
L3	-1.98E+04	1.98E+04	-1.98E+04	1.98E+04
L4	-2.01E+04	2.01E+04	-2.01E+04	2.01E+04
NF	—	—	—	—
NS	-2.10E+04	2.10E+04	-2.08E+04	2.08E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-73. Time history of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

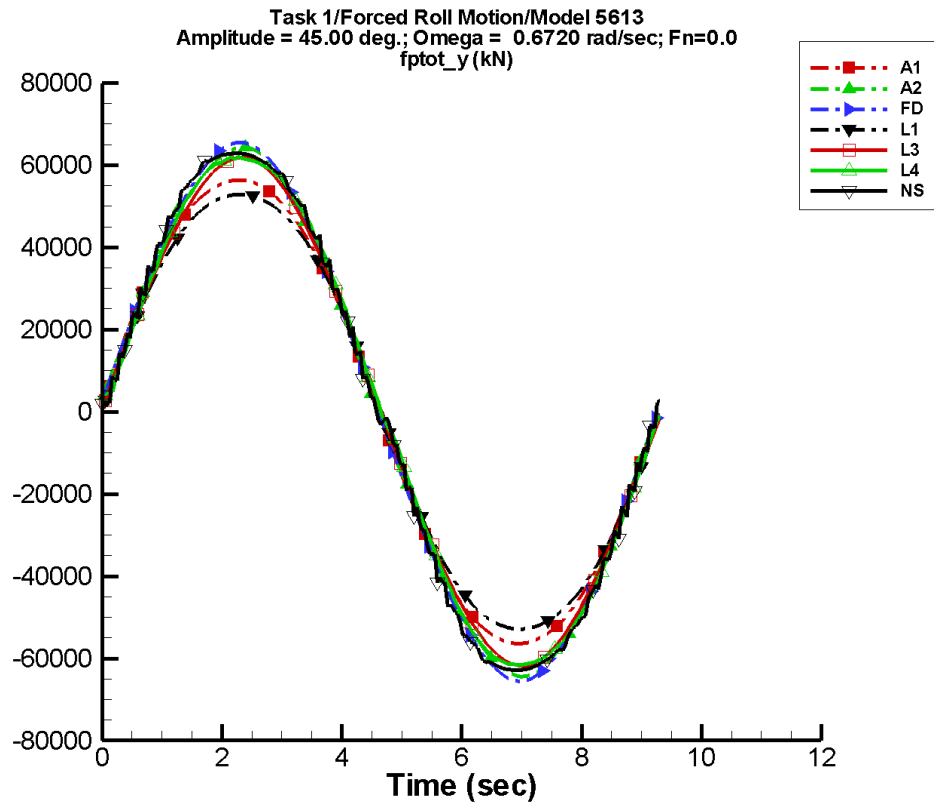
Table C–145. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	17.1	3.98E+04	2	53.1	55
A2	-52.1	4.17E+04	2	111.	-167
FD	-16.1	4.14E+04	2	32.6	-44
L1	-9.84E-02	3.81E+04	1	106.	55
L3	1.53	3.98E+04	1	14.5	-128
L4	67.6	4.08E+04	0	79.6	154
NF	—	—	—	—	—
NS	2.82E-02	4.21E+04	1	2.70	-57

Table C–146. Minimum and maximum of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.94E+04	3.94E+04	-3.90E+04	3.90E+04
A2	-4.27E+04	4.27E+04	-4.22E+04	4.22E+04
FD	-4.16E+04	4.16E+04	-4.12E+04	4.11E+04
L1	-3.77E+04	3.77E+04	-3.75E+04	3.75E+04
L3	-3.99E+04	3.99E+04	-3.97E+04	3.97E+04
L4	-4.07E+04	4.07E+04	-4.06E+04	4.06E+04
NF	—	—	—	—
NS	-4.22E+04	4.22E+04	-4.21E+04	4.21E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-74. Time history of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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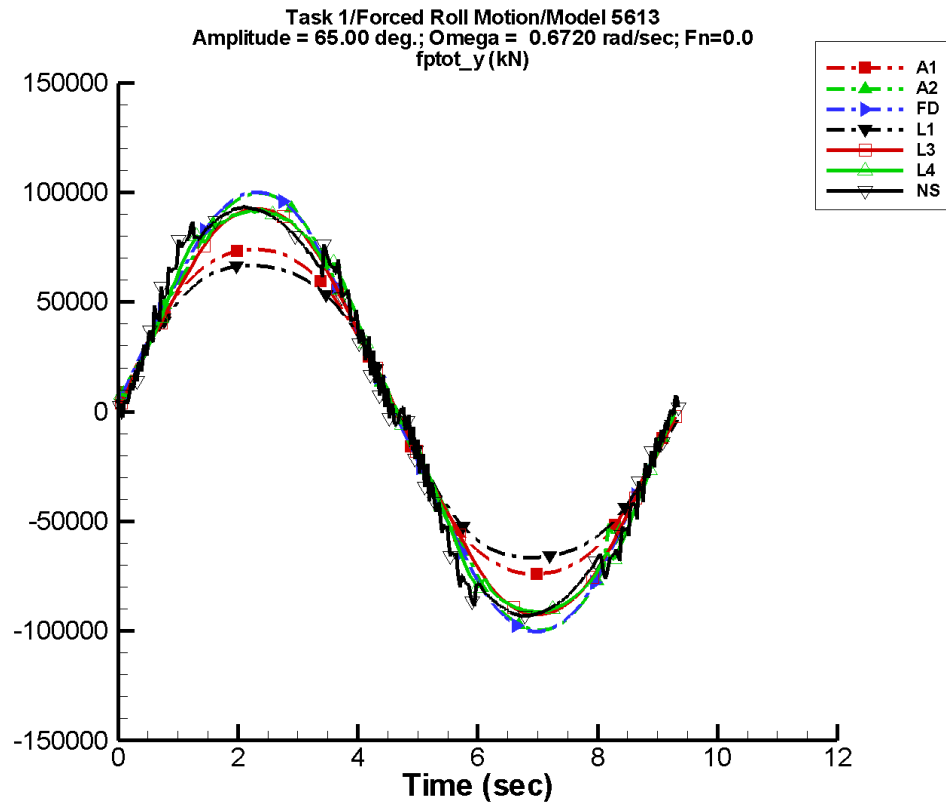
Table C–147. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	57.9	5.76E+04	2	162.	55
A2	-65.0	6.32E+04	2	99.8	-179
FD	-91.3	6.42E+04	2	177.	-38
L1	-1.11	5.44E+04	1	350.	55
L3	8.35	6.10E+04	0	161.	-128
L4	136.	6.22E+04	0	6.95	-139
NF	—	—	—	—	—
NS	-4.60	6.39E+04	2	4.49	-37

Table C–148. Minimum and maximum of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.64E+04	5.64E+04	-5.58E+04	5.58E+04
A2	-6.45E+04	6.44E+04	-6.35E+04	6.34E+04
FD	-6.55E+04	6.55E+04	-6.48E+04	6.46E+04
L1	-5.29E+04	5.29E+04	-5.27E+04	5.27E+04
L3	-6.18E+04	6.19E+04	-6.16E+04	6.16E+04
L4	-6.16E+04	6.19E+04	-6.14E+04	6.15E+04
NF	—	—	—	—
NS	-6.29E+04	6.29E+04	-6.28E+04	6.28E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-75. Time history of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

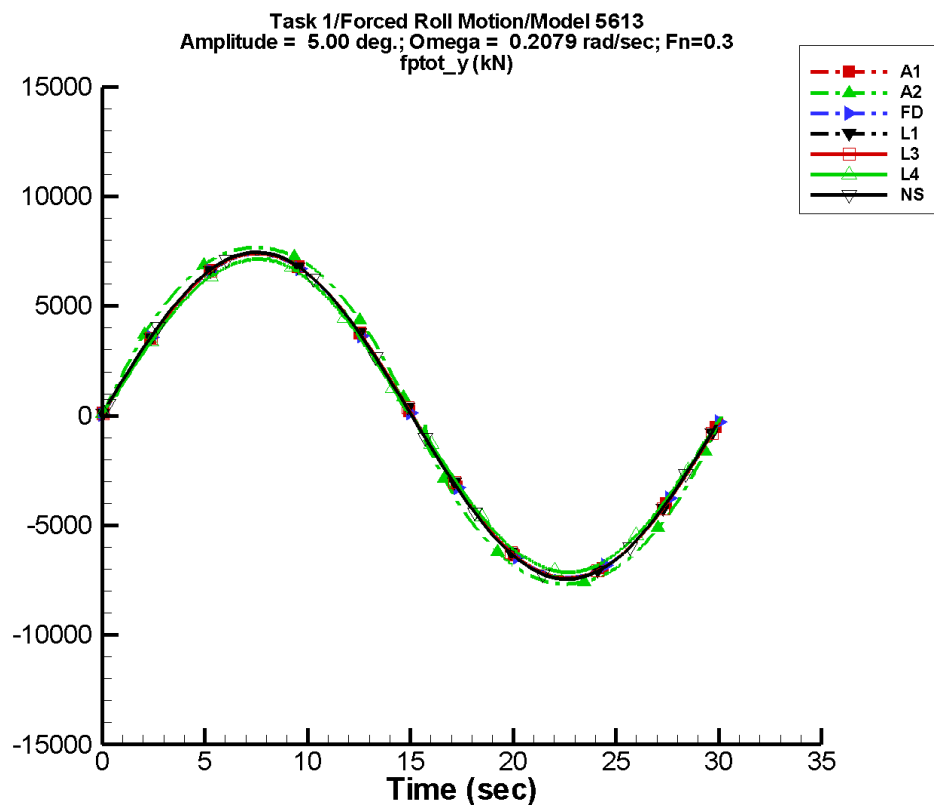
Table C–149. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	170.	7.77E+04	2	458.	54
A2	-0.850	9.70E+04	1	691.	-167
FD	-209.	9.82E+04	2	458.	-49
L1	-2.97	7.09E+04	1	1.01E+03	55
L3	-5.67	9.16E+04	0	388.	-124
L4	211.	9.36E+04	0	294.	30
NF	—	—	—	—	—
NS	-33.4	9.48E+04	3	24.8	146

Table C–150. Minimum and maximum of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.41E+04	7.41E+04	-7.35E+04	7.35E+04
A2	-9.97E+04	9.97E+04	-9.86E+04	9.85E+04
FD	-1.00E+05	1.00E+05	-9.95E+04	9.91E+04
L1	-6.66E+04	6.66E+04	-6.65E+04	6.65E+04
L3	-9.25E+04	9.25E+04	-9.21E+04	9.22E+04
L4	-9.13E+04	9.23E+04	-9.10E+04	9.13E+04
NF	—	—	—	—
NS	-9.34E+04	9.35E+04	-9.31E+04	9.31E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-76. Time history of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

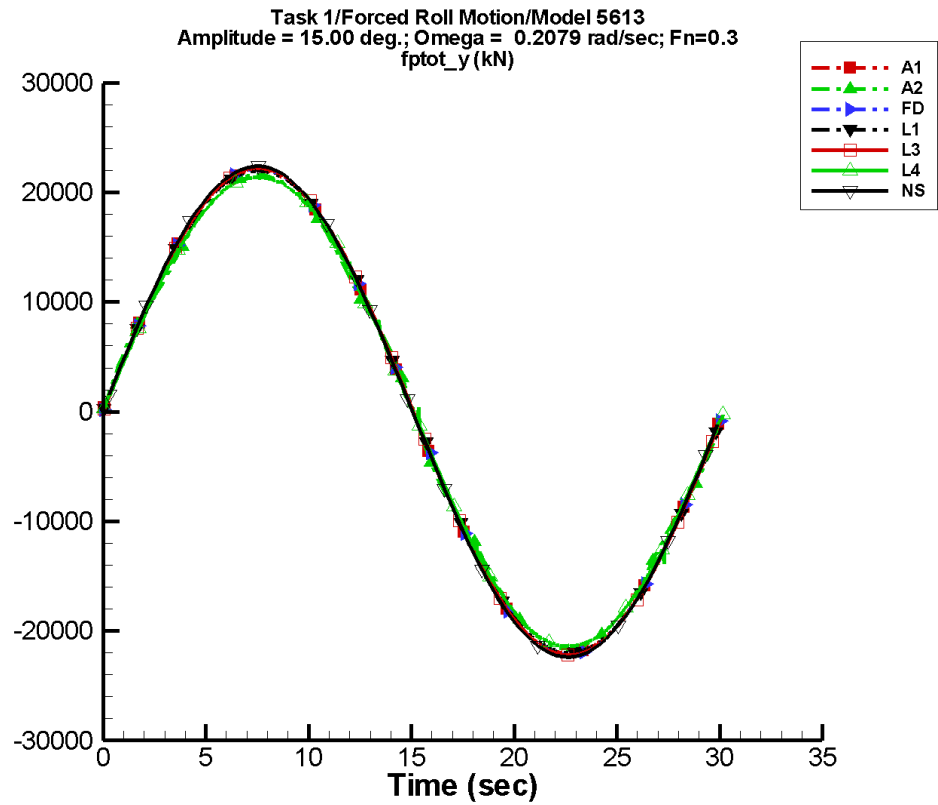
Table C–151. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.82E-02	7.43E+03	0	0.346	64
A2	10.0	7.97E+03	0	53.5	59
FD	-0.245	7.38E+03	0	1.09	-115
L1	0.220	7.40E+03	0	0.564	87
L3	9.06E-02	7.41E+03	0	6.74E-02	87
L4	-3.42	7.11E+03	0	15.4	-107
NF	—	—	—	—	—
NS	-3.13E-03	7.45E+03	0	9.34E-03	143

Table C–152. Minimum and maximum of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.42E+03	7.42E+03	-7.42E+03	7.43E+03
A2	-7.67E+03	7.67E+03	-7.67E+03	7.68E+03
FD	-7.39E+03	7.39E+03	-7.38E+03	7.38E+03
L1	-7.40E+03	7.40E+03	-7.40E+03	7.40E+03
L3	-7.41E+03	7.41E+03	-7.40E+03	7.40E+03
L4	-7.14E+03	7.21E+03	-7.14E+03	7.14E+03
NF	—	—	—	—
NS	-7.45E+03	7.45E+03	-7.38E+03	7.38E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-77. Time history of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $Fn = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

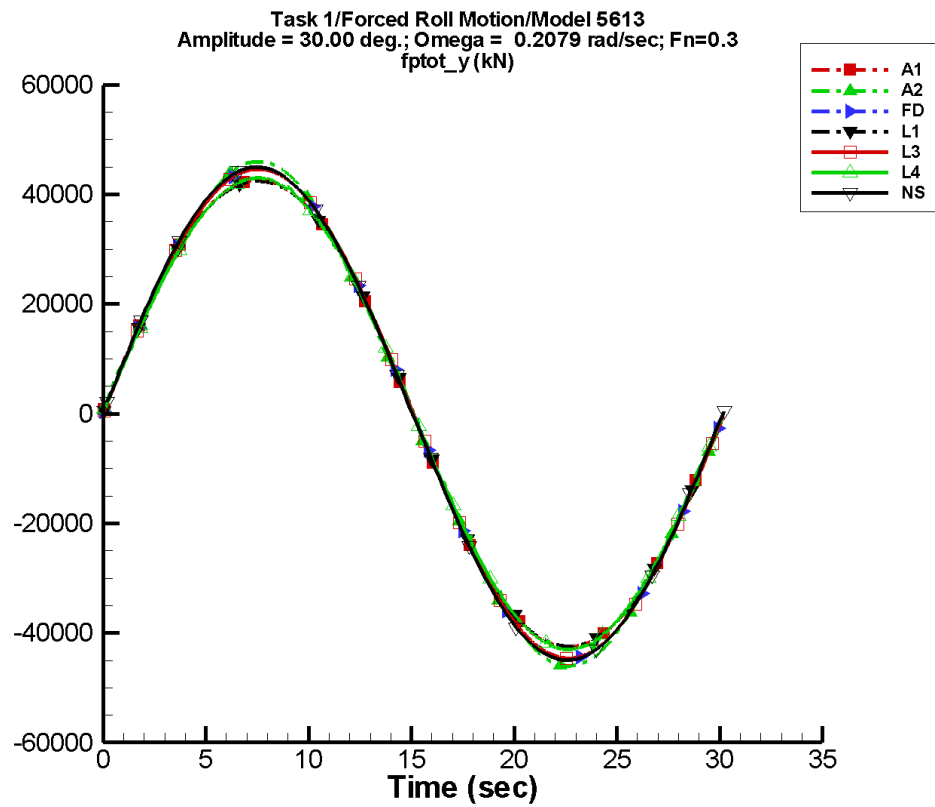
Table C–153. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.68	2.21E+04	0	9.87	60
A2	12.4	2.14E+04	0	33.8	127
FD	-0.222	2.22E+04	0	0.701	-104
L1	3.98	2.20E+04	0	15.2	87
L3	0.274	2.22E+04	0	0.612	87
L4	13.1	2.14E+04	0	30.6	161
NF	—	—	—	—	—
NS	-4.11E-02	2.24E+04	0	0.106	157

Table C–154. Minimum and maximum of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.20E+04	2.20E+04	-2.20E+04	2.21E+04
A2	-2.16E+04	2.16E+04	-2.16E+04	2.16E+04
FD	-2.22E+04	2.22E+04	-2.22E+04	2.22E+04
L1	-2.20E+04	2.20E+04	-2.20E+04	2.20E+04
L3	-2.22E+04	2.22E+04	-2.22E+04	2.22E+04
L4	-2.14E+04	2.14E+04	-2.14E+04	2.14E+04
NF	—	—	—	—
NS	-2.24E+04	2.24E+04	-2.22E+04	2.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-78. Time history of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

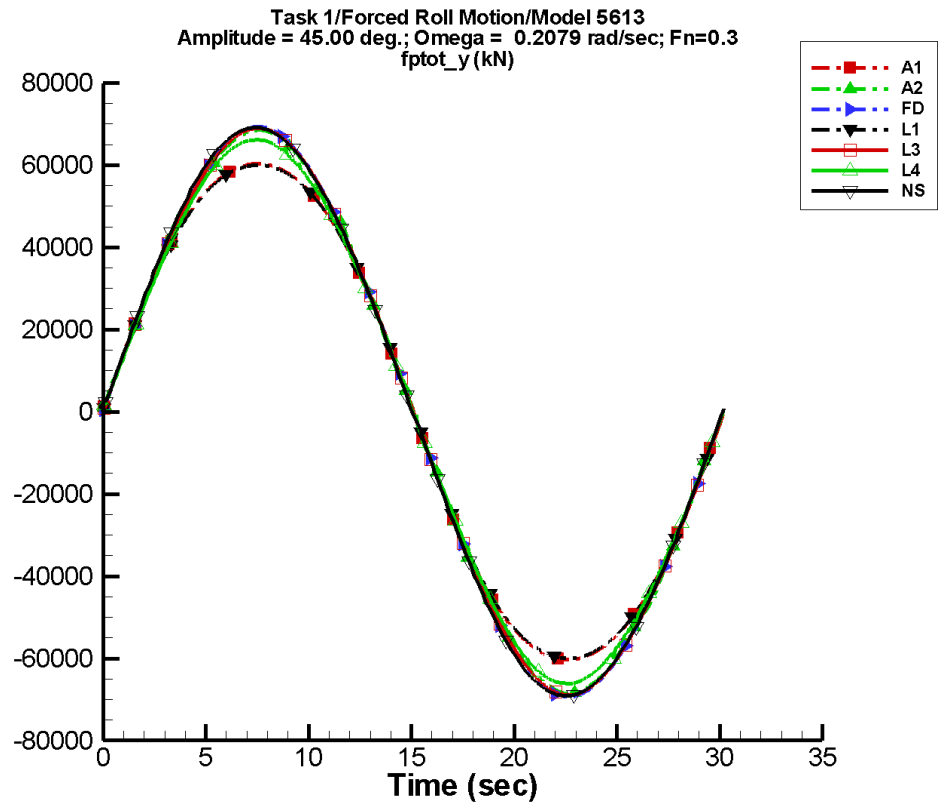
Table C–155. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	12.6	4.31E+04	0	78.4	60
A2	-17.8	4.51E+04	0	128.	-131
FD	-3.11	4.46E+04	0	16.2	-129
L1	30.7	4.29E+04	0	120.	87
L3	-3.45	4.45E+04	0	14.8	-92
L4	23.4	4.29E+04	0	43.2	150
NF	—	—	—	—	—
NS	-5.25E-02	4.49E+04	1	0.496	172

Table C–156. Minimum and maximum of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.26E+04	4.26E+04	-4.26E+04	4.26E+04
A2	-4.60E+04	4.60E+04	-4.59E+04	4.60E+04
FD	-4.47E+04	4.47E+04	-4.46E+04	4.46E+04
L1	-4.24E+04	4.24E+04	-4.24E+04	4.24E+04
L3	-4.46E+04	4.46E+04	-4.46E+04	4.46E+04
L4	-4.35E+04	4.30E+04	-4.30E+04	4.30E+04
NF	—	—	—	—
NS	-4.50E+04	4.50E+04	-4.48E+04	4.48E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-79. Time history of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

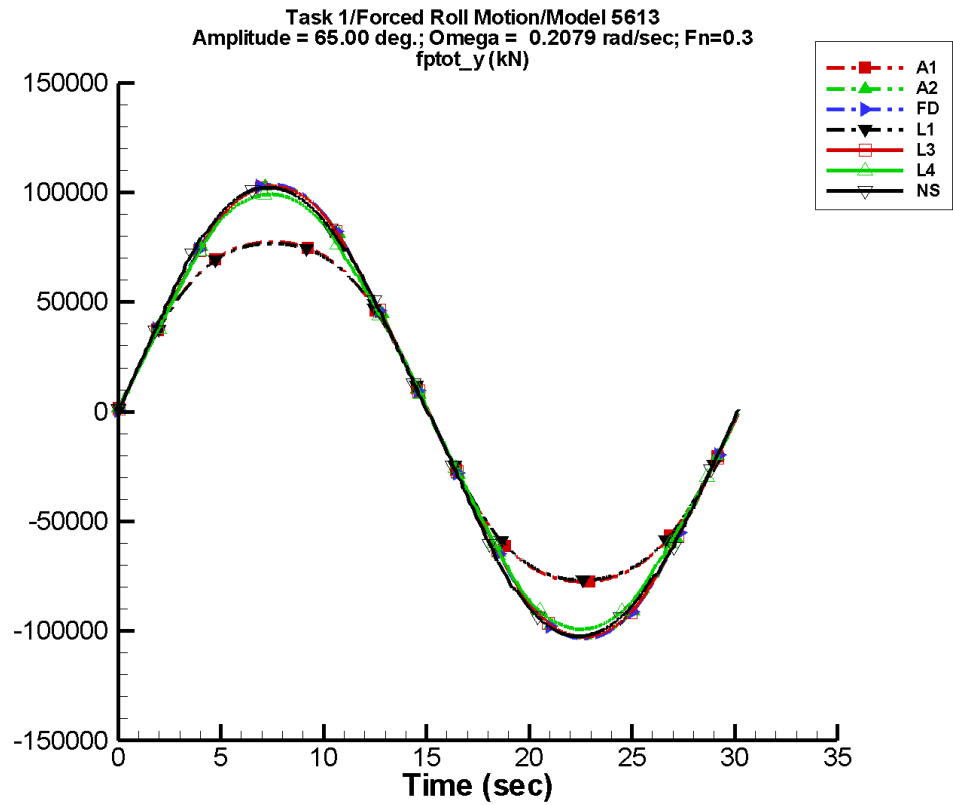
Table C–157. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	41.2	6.19E+04	0	260.	60
A2	-19.7	6.77E+04	0	70.0	-132
FD	-23.8	6.83E+04	0	126.	-128
L1	101.	6.16E+04	0	398.	87
L3	-42.9	6.80E+04	0	173.	-92
L4	-5.28	6.55E+04	0	88.2	-79
NF	—	—	—	—	—
NS	-0.147	6.85E+04	1	1.23	-161

Table C–158. Minimum and maximum of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.03E+04	6.03E+04	-6.03E+04	6.04E+04
A2	-6.85E+04	6.85E+04	-6.84E+04	6.85E+04
FD	-6.93E+04	6.93E+04	-6.93E+04	6.93E+04
L1	-6.00E+04	6.00E+04	-6.00E+04	6.00E+04
L3	-6.89E+04	6.89E+04	-6.89E+04	6.89E+04
L4	-6.61E+04	6.62E+04	-6.61E+04	6.61E+04
NF	—	—	—	—
NS	-6.91E+04	6.91E+04	-6.90E+04	6.90E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C–80. Time history of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

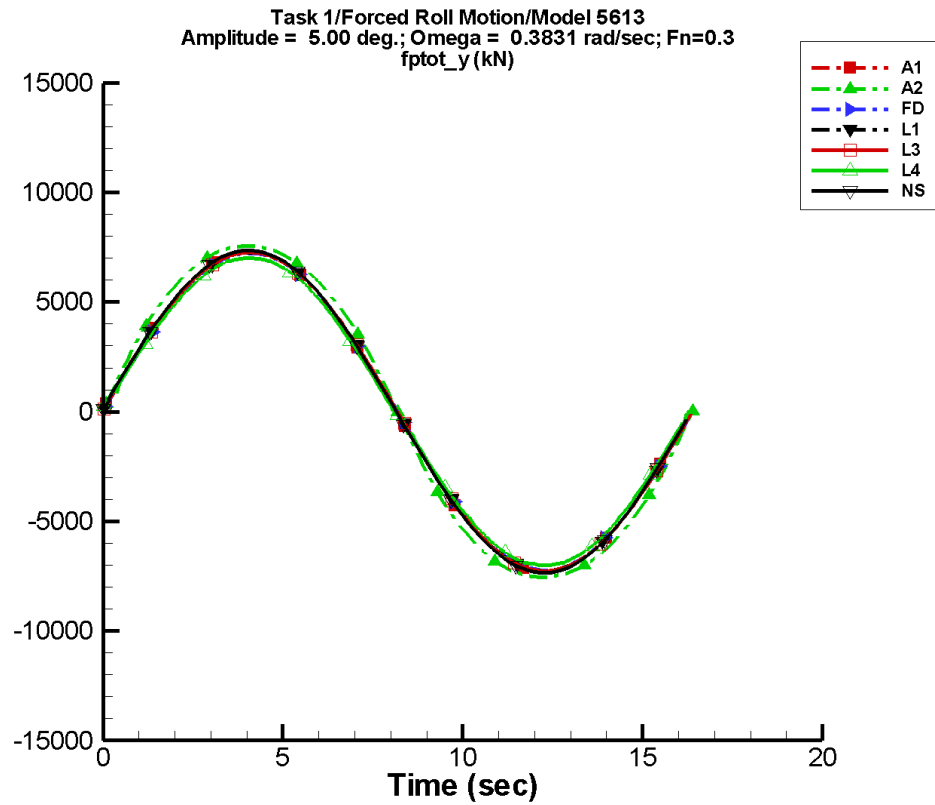
Table C–159. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	119.	8.21E+04	1	753.	60
A2	-59.2	1.02E+05	0	324.	-127
FD	-62.7	1.02E+05	0	328.	-116
L1	293.	8.15E+04	0	1.15E+03	87
L3	-122.	1.02E+05	0	472.	-93
L4	-105.	9.83E+04	1	484.	-63
NF	—	—	—	—	—
NS	-15.7	1.02E+05	1	36.0	109

Table C–160. Minimum and maximum of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.75E+04	7.75E+04	-7.74E+04	7.76E+04
A2	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
FD	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
L1	-7.68E+04	7.68E+04	-7.68E+04	7.68E+04
L3	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
L4	-9.92E+04	9.92E+04	-9.91E+04	9.92E+04
NF	—	—	—	—
NS	-1.02E+05	1.02E+05	-1.02E+05	1.02E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C–81. Time history of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

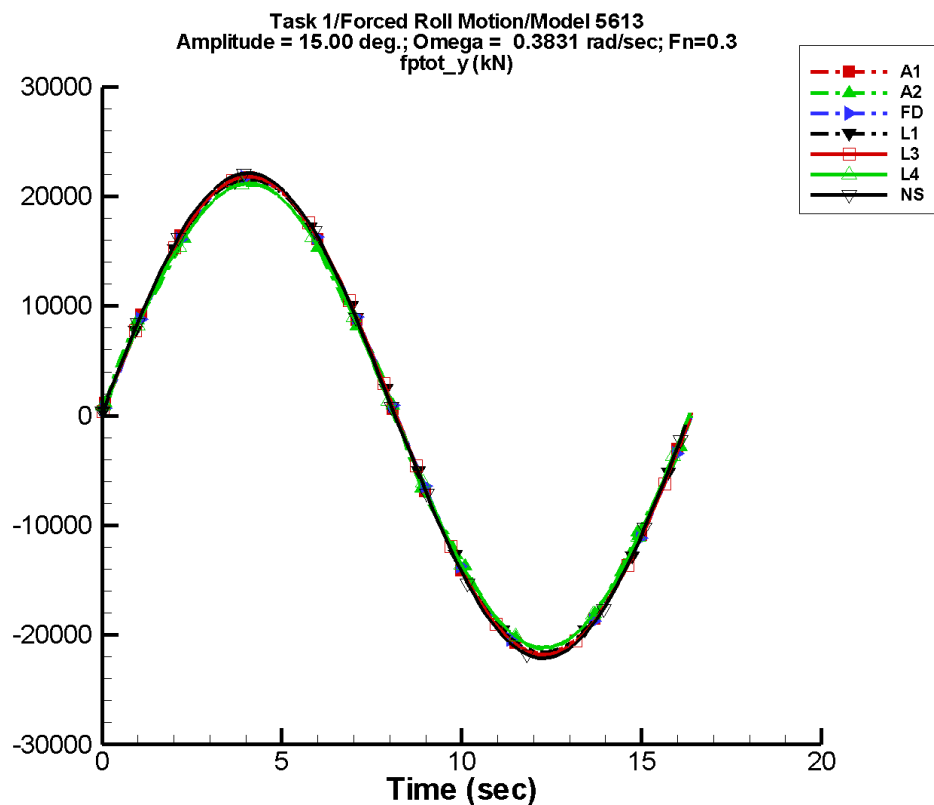
Table C–161. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.280	7.30E+03	1	0.384	162
A2	9.17	7.85E+03	1	55.1	58
FD	-0.222	7.23E+03	0	1.44	-105
L1	0.294	7.26E+03	0	0.359	147
L3	0.120	7.27E+03	0	5.28E-02	133
L4	-5.04	6.99E+03	1	11.2	-64
NF	—	—	—	—	—
NS	-3.43E-02	7.34E+03	1	2.59E-02	13

Table C–162. Minimum and maximum of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.30E+03	7.31E+03	-7.27E+03	7.33E+03
A2	-7.55E+03	7.56E+03	-7.53E+03	7.59E+03
FD	-7.23E+03	7.23E+03	-7.21E+03	7.21E+03
L1	-7.26E+03	7.26E+03	-7.25E+03	7.25E+03
L3	-7.27E+03	7.27E+03	-7.26E+03	7.26E+03
L4	-7.00E+03	7.00E+03	-6.99E+03	6.99E+03
NF	—	—	—	—
NS	-7.35E+03	7.35E+03	-7.28E+03	7.28E+03

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Data identically zero, insufficient, or not available from NFA.

Figure C-82. Time history of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–163. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.86	2.17E+04	1	9.09	70
A2	13.6	2.11E+04	1	34.1	131
FD	-0.345	2.17E+04	0	1.66	-101
L1	5.45	2.16E+04	0	9.33	148
L3	0.352	2.18E+04	0	0.406	139
L4	-5.83	2.11E+04	1	11.8	-69
NF	—	—	—	—	—
NS	-0.466	2.21E+04	1	0.294	72

Table C–164. Minimum and maximum of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.17E+04	2.17E+04	-2.16E+04	2.18E+04
A2	-2.12E+04	2.13E+04	-2.12E+04	2.13E+04
FD	-2.17E+04	2.17E+04	-2.16E+04	2.16E+04
L1	-2.16E+04	2.16E+04	-2.15E+04	2.15E+04
L3	-2.18E+04	2.18E+04	-2.18E+04	2.18E+04
L4	-2.12E+04	2.12E+04	-2.11E+04	2.11E+04
NF	—	—	—	—
NS	-2.21E+04	2.21E+04	-2.19E+04	2.19E+04

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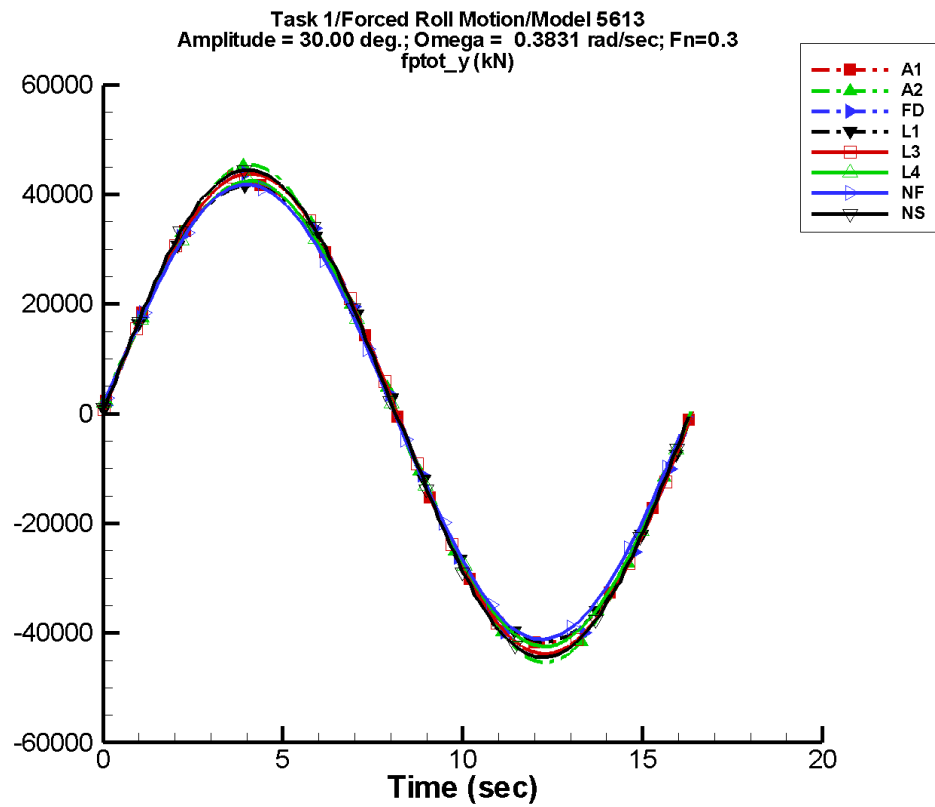


Figure C–83. Time history of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–165. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	10.6	4.24E+04	1	79.3	65
A2	-14.9	4.45E+04	1	139.	-134
FD	-4.36	4.37E+04	0	29.0	-104
L1	42.1	4.21E+04	0	73.5	148
L3	-5.38	4.37E+04	0	9.61	-20
L4	-14.2	4.22E+04	1	24.0	-56
NF	-179.	4.11E+04	-14	397.	-64
NS	-2.29	4.43E+04	1	1.53	83

Table C–166. Minimum and maximum of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.19E+04	4.20E+04	-4.18E+04	4.21E+04
A2	-4.53E+04	4.54E+04	-4.51E+04	4.55E+04
FD	-4.39E+04	4.39E+04	-4.37E+04	4.37E+04
L1	-4.16E+04	4.16E+04	-4.16E+04	4.16E+04
L3	-4.38E+04	4.38E+04	-4.37E+04	4.37E+04
L4	-4.25E+04	4.24E+04	-4.24E+04	4.24E+04
NF	-4.12E+04	4.18E+04	-4.09E+04	4.15E+04
NS	-4.45E+04	4.44E+04	-4.43E+04	4.43E+04

TASK 1/ROLL MOTION/MODEL 5613

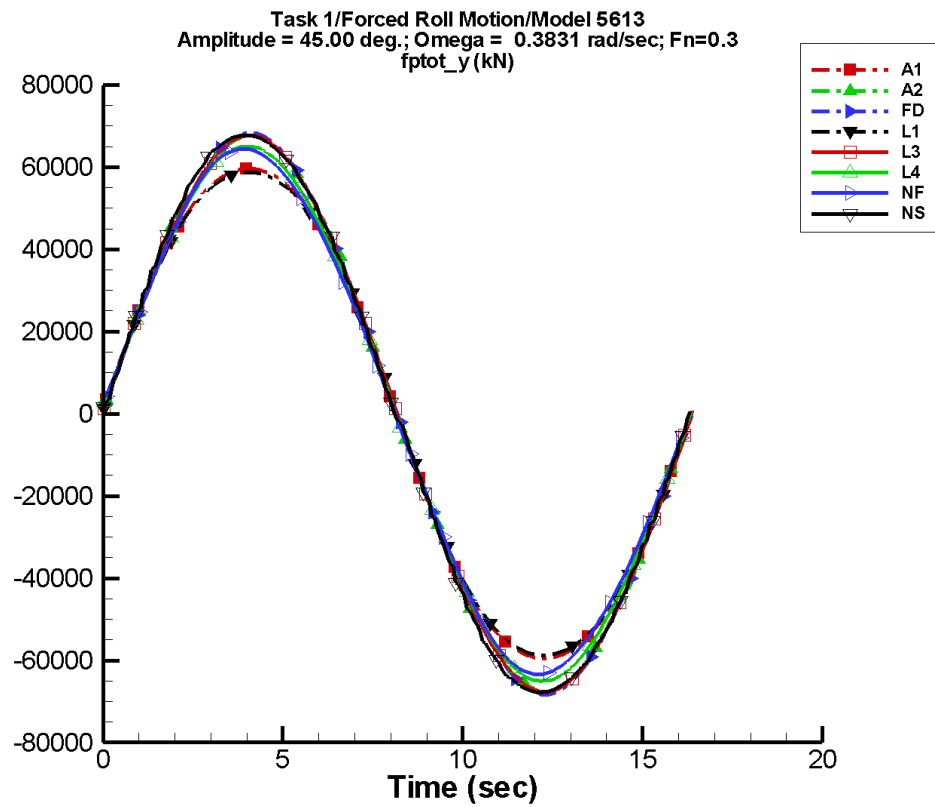


Figure C–84. Time history of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–167. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	32.6	6.10E+04	1	267.	64
A2	-19.6	6.68E+04	1	88.8	-142
FD	-29.5	6.72E+04	0	197.	-103
L1	139.	6.03E+04	1	243.	148
L3	-62.6	6.69E+04	0	109.	-24
L4	-58.5	6.44E+04	1	96.0	-17
NF	-286.	6.29E+04	-13	696.	-75
NS	-6.85	6.75E+04	1	3.34	81

Table C–168. Minimum and maximum of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.95E+04	5.96E+04	-5.93E+04	5.98E+04
A2	-6.77E+04	6.77E+04	-6.73E+04	6.78E+04
FD	-6.83E+04	6.83E+04	-6.80E+04	6.80E+04
L1	-5.87E+04	5.87E+04	-5.87E+04	5.87E+04
L3	-6.77E+04	6.77E+04	-6.76E+04	6.76E+04
L4	-6.50E+04	6.50E+04	-6.49E+04	6.49E+04
NF	-6.34E+04	6.44E+04	-6.30E+04	6.39E+04
NS	-6.78E+04	6.78E+04	-6.77E+04	6.77E+04

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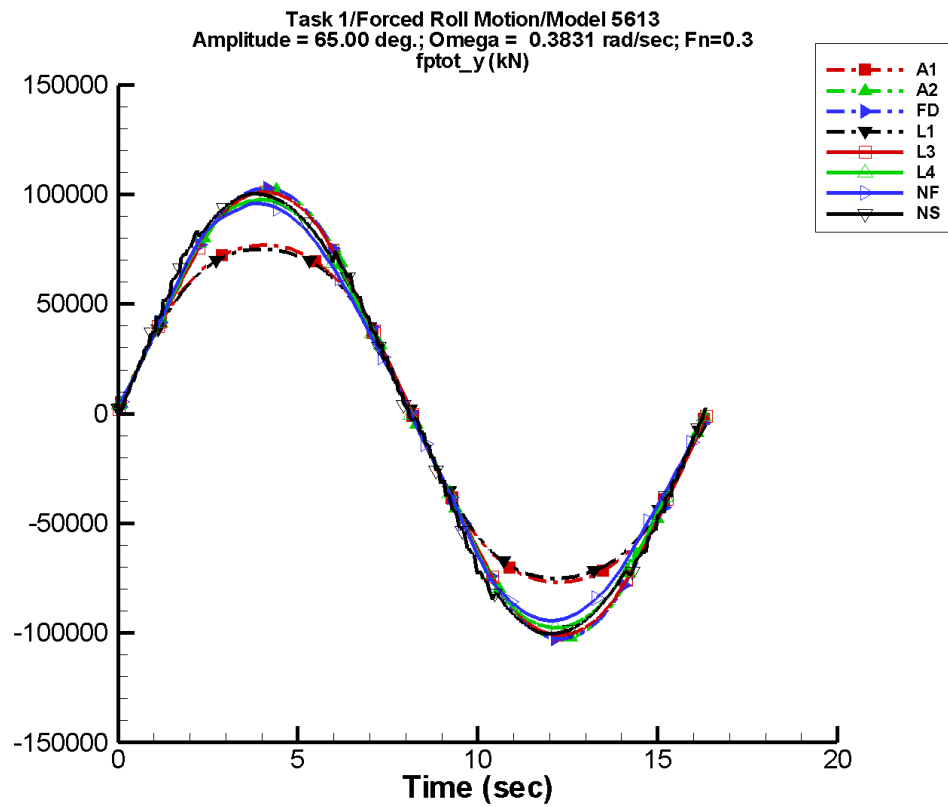


Figure C–85. Time history of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

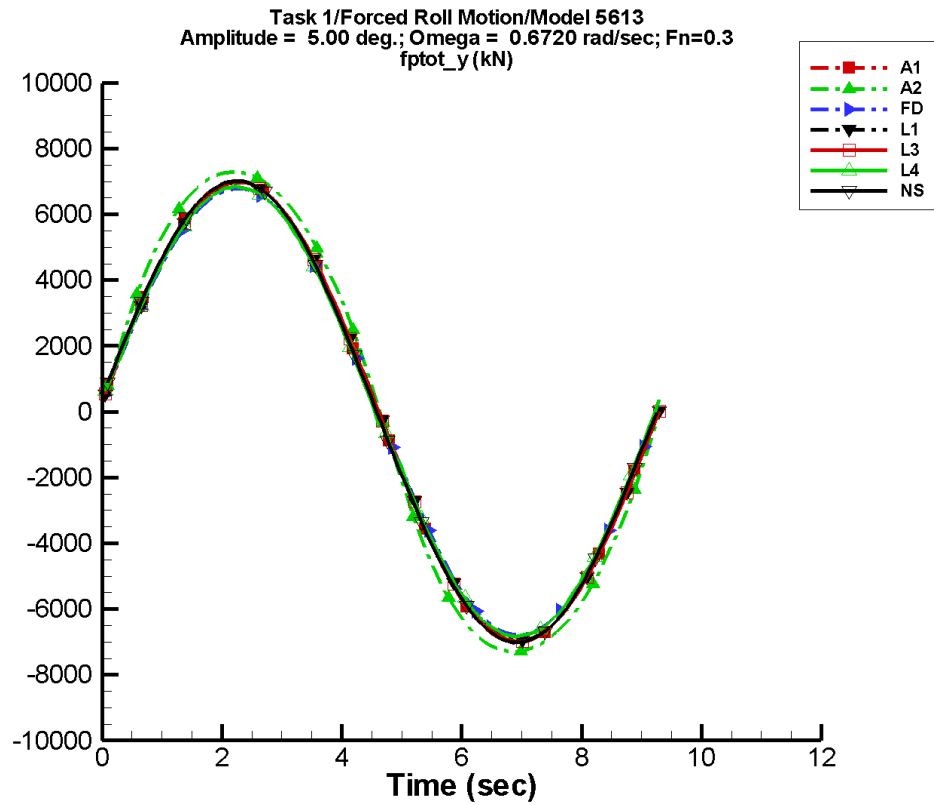
Table C–169. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	92.4	8.11E+04	1	780.	64
A2	-107.	1.01E+05	0	248.	-66
FD	-61.4	1.01E+05	0	482.	-108
L1	401.	7.94E+04	1	702.	148
L3	-147.	1.00E+05	0	276.	-39
L4	-156.	9.71E+04	1	275.	-26
NF	-438.	9.44E+04	-13	1.20E+03	-76
NS	-34.9	1.01E+05	2	36.8	113

Table C–170. Minimum and maximum of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.68E+04	7.68E+04	-7.66E+04	7.71E+04
A2	-1.03E+05	1.03E+05	-1.02E+05	1.02E+05
FD	-1.03E+05	1.03E+05	-1.02E+05	1.02E+05
L1	-7.50E+04	7.50E+04	-7.50E+04	7.50E+04
L3	-1.01E+05	1.01E+05	-1.01E+05	1.01E+05
L4	-9.77E+04	9.77E+04	-9.75E+04	9.75E+04
NF	-9.44E+04	9.58E+04	-9.38E+04	9.51E+04
NS	-1.01E+05	1.00E+05	-1.00E+05	1.00E+05

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Data identically zero, insufficient, or not available from NFA.

Figure C–86. Time history of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

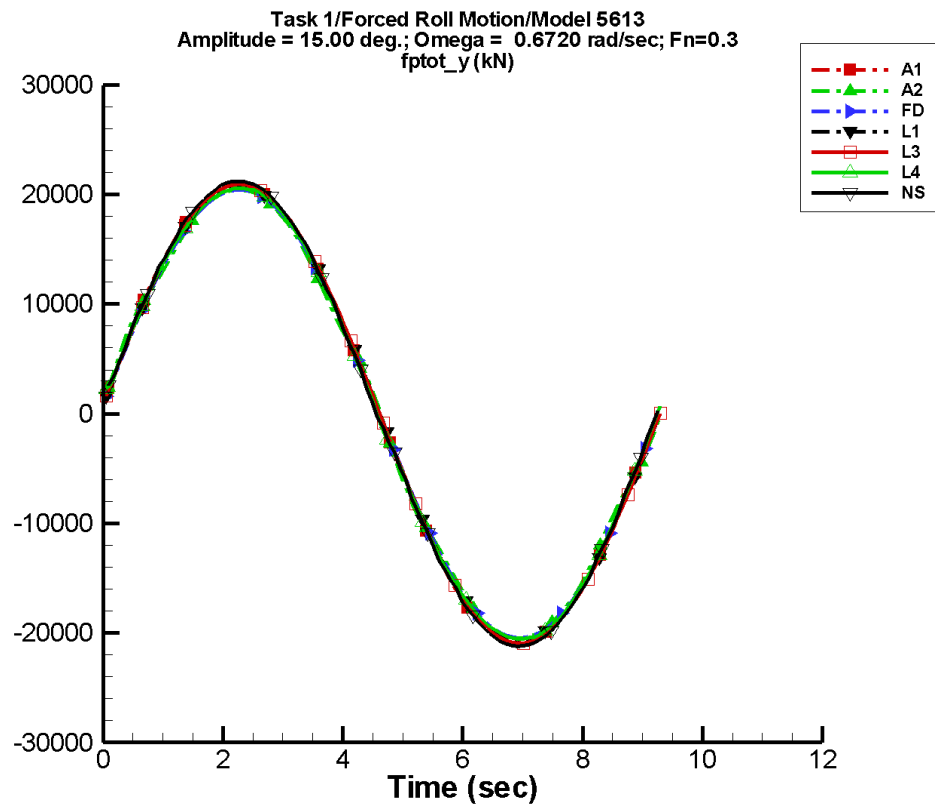
Table C–171. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.899	7.03E+03	3	2.36	91
A2	18.8	7.59E+03	3	41.3	39
FD	-0.575	6.79E+03	2	1.10	-45
L1	0.172	6.97E+03	2	0.498	55
L3	0.174	6.98E+03	2	5.49E-02	59
L4	-1.77	6.81E+03	3	12.2	-124
NF	—	—	—	—	—
NS	0.228	7.01E+03	4	0.311	-20

Table C–172. Minimum and maximum of F_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.03E+03	7.02E+03	-6.95E+03	6.94E+03
A2	-7.30E+03	7.29E+03	-7.23E+03	7.23E+03
FD	-6.80E+03	6.79E+03	-6.72E+03	6.72E+03
L1	-6.96E+03	6.96E+03	-6.94E+03	6.94E+03
L3	-6.98E+03	6.98E+03	-6.95E+03	6.95E+03
L4	-6.84E+03	6.84E+03	-6.80E+03	6.80E+03
NF	—	—	—	—
NS	-7.01E+03	7.02E+03	-6.94E+03	6.94E+03

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Data identically zero, insufficient, or not available from NFA.

Figure C-87. Time history of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–173. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.88	2.09E+04	3	12.3	75
A2	7.80	2.03E+04	3	53.3	113
FD	-1.31	2.04E+04	2	2.90	-57
L1	0.322	2.07E+04	2	13.4	55
L3	0.422	2.09E+04	2	0.508	57
L4	-1.23	2.06E+04	3	25.8	-168
NF	—	—	—	—	—
NS	0.240	2.11E+04	3	1.12	-40

Table C–174. Minimum and maximum of F_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.09E+04	2.09E+04	-2.07E+04	2.06E+04
A2	-2.04E+04	2.04E+04	-2.02E+04	2.02E+04
FD	-2.04E+04	2.04E+04	-2.02E+04	2.02E+04
L1	-2.07E+04	2.07E+04	-2.06E+04	2.06E+04
L3	-2.09E+04	2.09E+04	-2.09E+04	2.09E+04
L4	-2.06E+04	2.06E+04	-2.05E+04	2.05E+04
NF	—	—	—	—
NS	-2.12E+04	2.12E+04	-2.10E+04	2.10E+04

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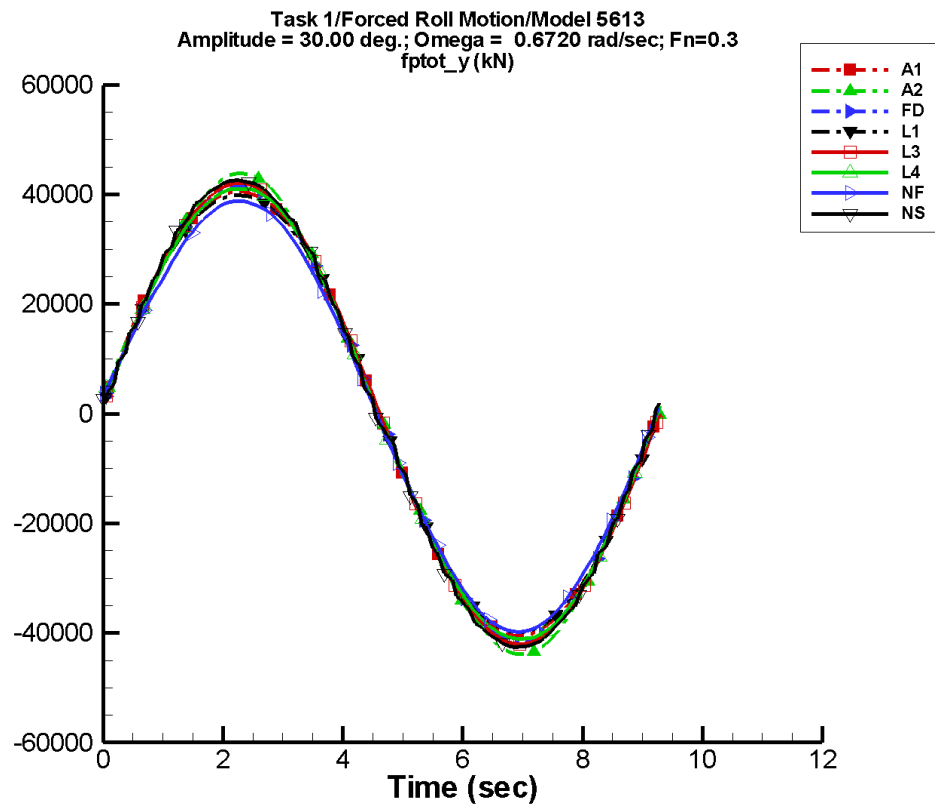


Figure C–88. Time history of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

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Table C–175. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	24.3	4.10E+04	3	62.4	63
A2	-44.8	4.29E+04	3	111.	-174
FD	-16.1	4.14E+04	2	32.6	-44
L1	8.47E-02	4.03E+04	2	106.	55
L3	1.70	4.20E+04	2	14.3	-129
L4	-4.86	4.12E+04	3	62.1	-167
NF	57.5	3.99E+04	0	173.	139
NS	-1.59	4.24E+04	3	1.97	-46

Table C–176. Minimum and maximum of F_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.05E+04	4.05E+04	-4.01E+04	4.01E+04
A2	-4.39E+04	4.39E+04	-4.33E+04	4.33E+04
FD	-4.16E+04	4.16E+04	-4.12E+04	4.11E+04
L1	-3.98E+04	3.98E+04	-3.97E+04	3.97E+04
L3	-4.21E+04	4.21E+04	-4.19E+04	4.19E+04
L4	-4.10E+04	4.10E+04	-4.09E+04	4.09E+04
NF	-4.07E+04	4.01E+04	-4.05E+04	4.00E+04
NS	-4.26E+04	4.26E+04	-4.24E+04	4.24E+04

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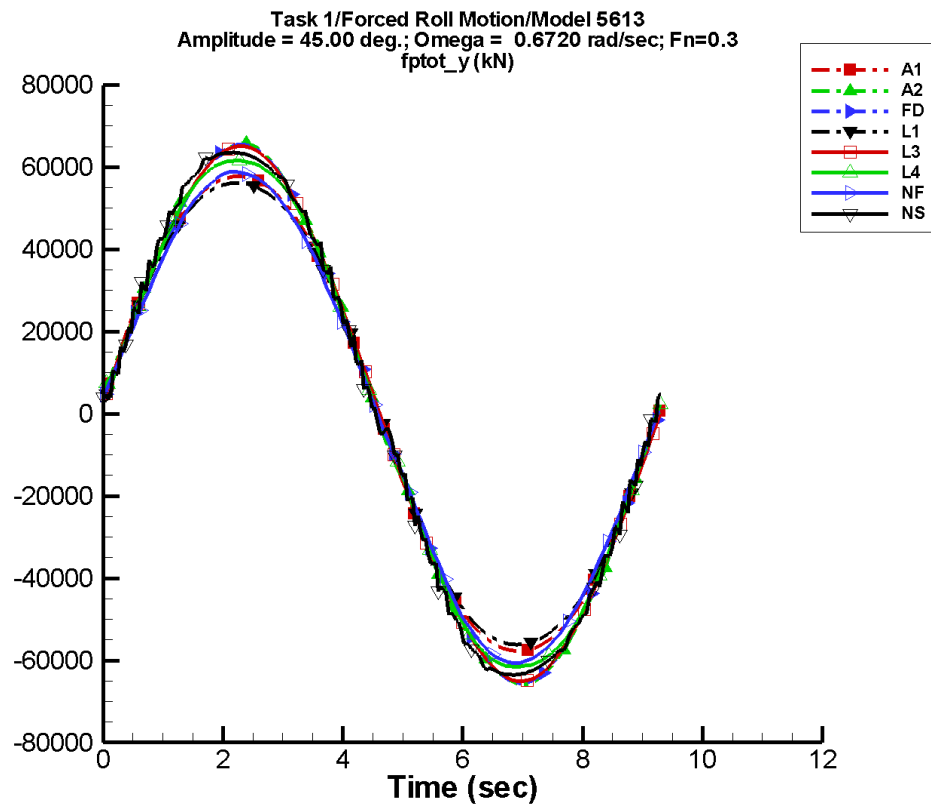


Figure C–89. Time history of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

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Table C–177. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	71.9	5.92E+04	3	188.	59
A2	-51.0	6.48E+04	2	102.	164
FD	-91.3	6.42E+04	2	177.	-38
L1	-0.859	5.76E+04	3	351.	55
L3	8.57	6.42E+04	2	160.	-128
L4	-34.7	6.23E+04	3	47.9	-102
NF	196.	6.05E+04	0	444.	111
NS	-8.25	6.43E+04	3	4.94	-22

Table C–178. Minimum and maximum of F_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.78E+04	5.77E+04	-5.72E+04	5.72E+04
A2	-6.59E+04	6.58E+04	-6.49E+04	6.48E+04
FD	-6.55E+04	6.55E+04	-6.48E+04	6.46E+04
L1	-5.62E+04	5.62E+04	-5.60E+04	5.60E+04
L3	-6.51E+04	6.51E+04	-6.48E+04	6.48E+04
L4	-6.16E+04	6.16E+04	-6.14E+04	6.14E+04
NF	-6.17E+04	6.11E+04	-6.13E+04	6.07E+04
NS	-6.36E+04	6.36E+04	-6.35E+04	6.35E+04

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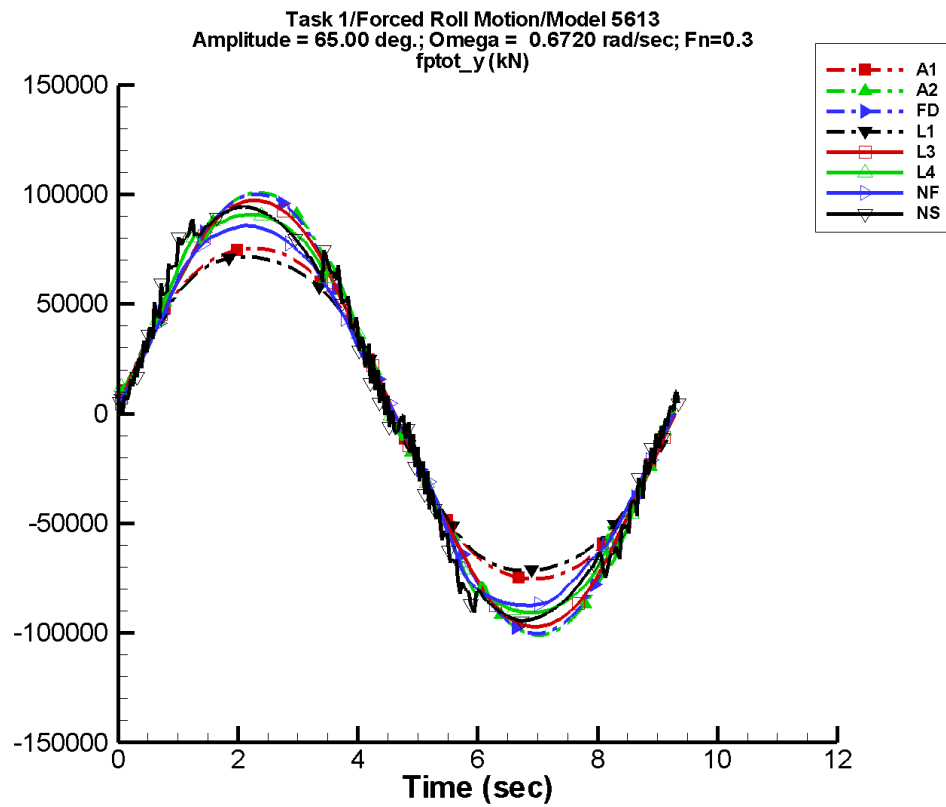


Figure C-90. Time history of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

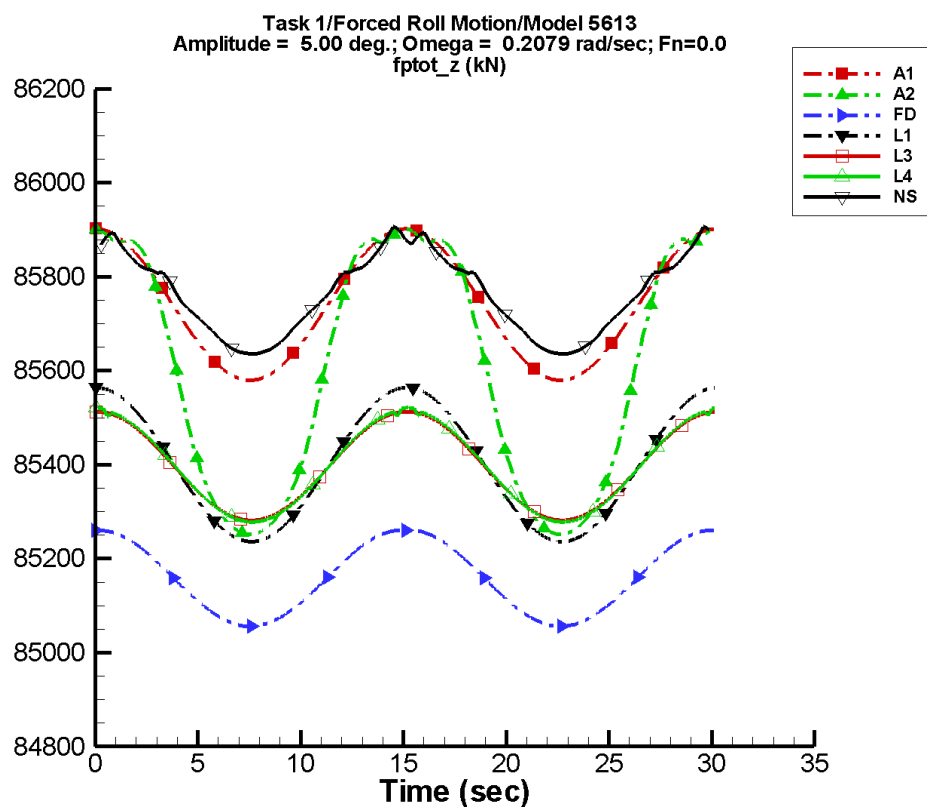
Table C–179. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	198.	7.94E+04	3	524.	58
A2	27.1	9.86E+04	2	666.	-173
FD	-209.	9.82E+04	2	458.	-49
L1	-2.63	7.57E+04	3	1.01E+03	55
L3	-5.37	9.63E+04	2	388.	-124
L4	-135.	9.34E+04	3	403.	20
NF	412.	8.99E+04	1	1.70E+03	165
NS	-35.9	9.56E+04	4	29.8	139

Table C–180. Minimum and maximum of F_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.53E+04	7.53E+04	-7.48E+04	7.48E+04
A2	-1.01E+05	1.01E+05	-9.98E+04	9.97E+04
FD	-1.00E+05	1.00E+05	-9.95E+04	9.91E+04
L1	-7.16E+04	7.16E+04	-7.14E+04	7.14E+04
L3	-9.72E+04	9.72E+04	-9.69E+04	9.69E+04
L4	-9.07E+04	9.07E+04	-9.06E+04	9.06E+04
NF	-8.91E+04	8.82E+04	-8.86E+04	8.79E+04
NS	-9.48E+04	9.48E+04	-9.45E+04	9.44E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-91. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

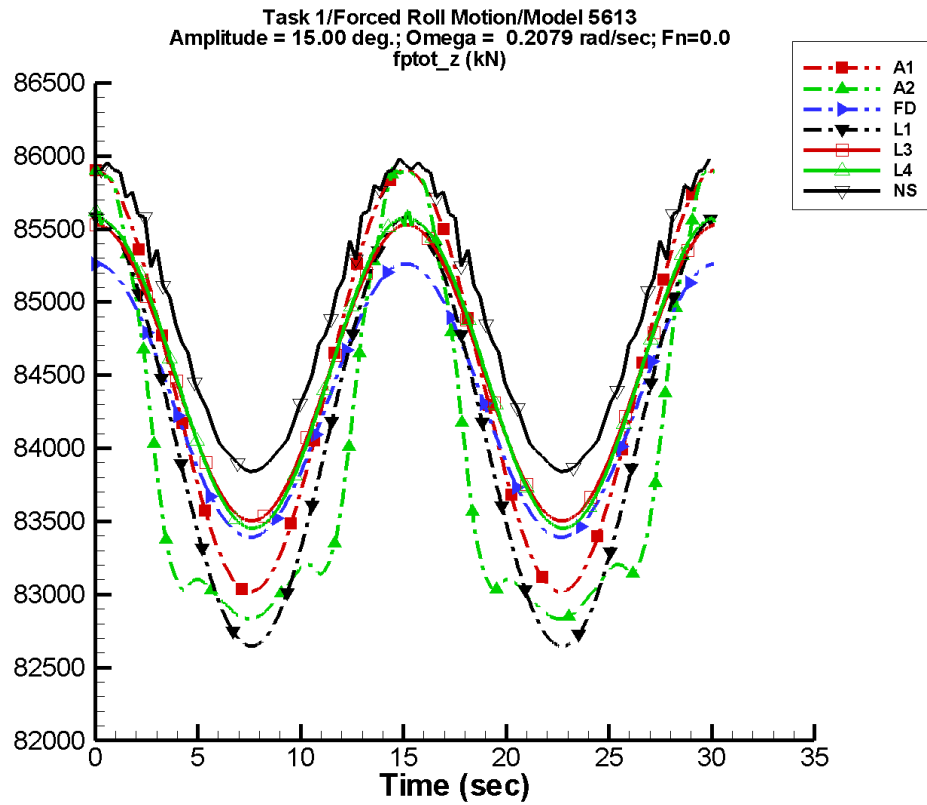
Table C–181. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	1.13E-02	24	161.	90
A2	8.56E+04	0.447	-17	350.	90
FD	8.52E+04	2.91E-02	-51	103.	90
L1	8.54E+04	2.73E-02	-20	164.	89
L3	8.54E+04	1.89E-02	105	116.	89
L4	8.54E+04	0.128	-102	119.	88
NF	—	—	—	—	—
NS	8.58E+04	1.63E-02	-36	120.	88

Table C–182. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.53E+04	8.59E+04	8.53E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.52E+04	8.56E+04	8.52E+04	8.56E+04
L3	8.53E+04	8.55E+04	8.53E+04	8.55E+04
L4	8.53E+04	8.55E+04	8.53E+04	8.55E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.56E+04	8.59E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-92. Time history of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

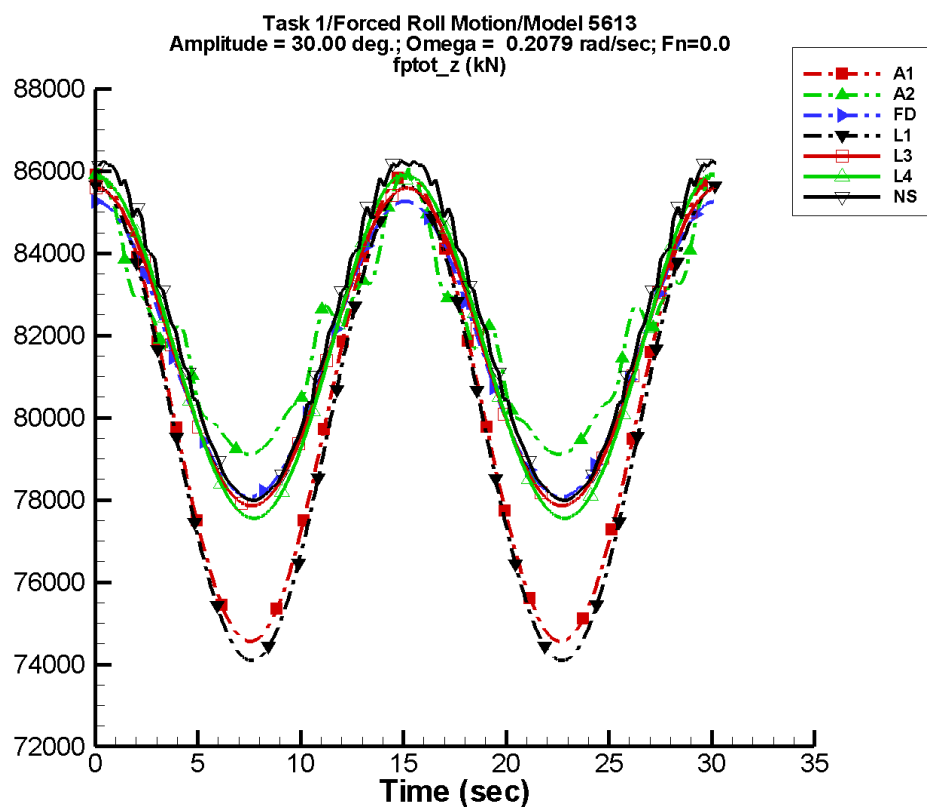
Table C–183. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.45E+04	7.59E-02	176	1.44E+03	90
A2	8.39E+04	8.36	175	1.48E+03	92
FD	8.43E+04	4.12E-02	-123	938.	90
L1	8.41E+04	0.136	115	1.47E+03	89
L3	8.45E+04	0.216	113	1.01E+03	89
L4	8.45E+04	1.07	-141	1.07E+03	88
NF	—	—	—	—	—
NS	8.49E+04	0.165	-15	1.06E+03	88

Table C–184. Minimum and maximum of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.30E+04	8.59E+04	8.30E+04	8.59E+04
A2	8.28E+04	8.59E+04	8.28E+04	8.59E+04
FD	8.34E+04	8.53E+04	8.34E+04	8.53E+04
L1	8.26E+04	8.56E+04	8.26E+04	8.56E+04
L3	8.35E+04	8.55E+04	8.35E+04	8.55E+04
L4	8.35E+04	8.56E+04	8.35E+04	8.56E+04
NF	—	—	—	—
NS	8.38E+04	8.60E+04	8.39E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-93. Time history of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

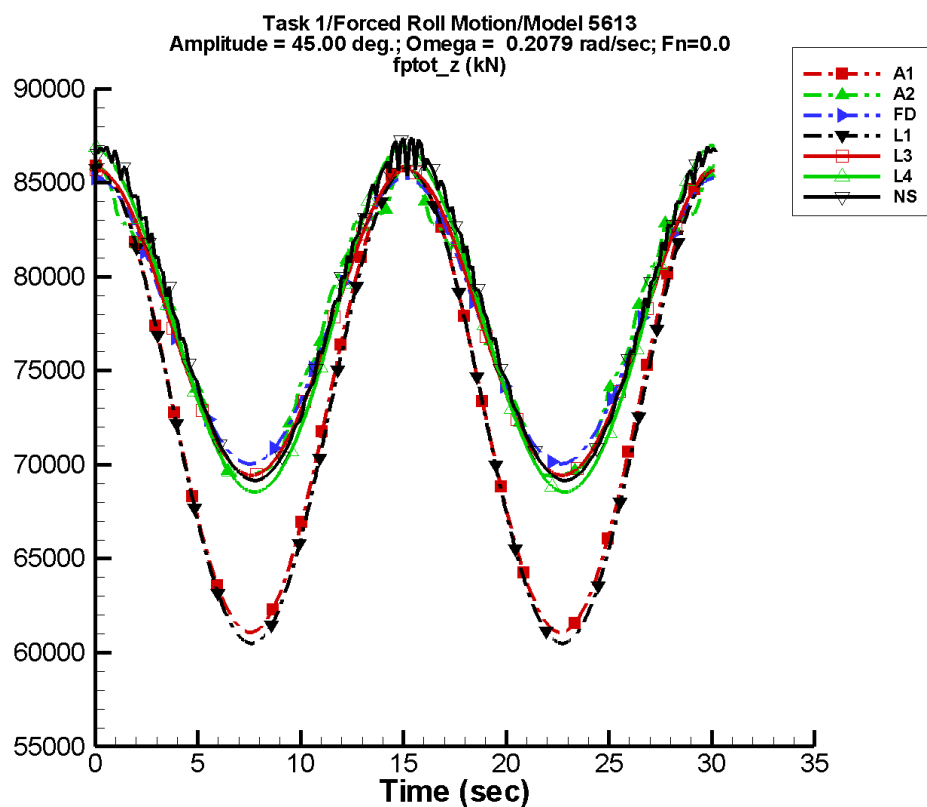
Table C–185. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.02E+04	0.577	-166	5.68E+03	90
A2	8.20E+04	10.2	129	2.84E+03	93
FD	8.16E+04	1.42	-171	3.60E+03	90
L1	7.98E+04	2.42	121	5.77E+03	89
L3	8.17E+04	4.71	120	3.86E+03	89
L4	8.17E+04	6.34	-155	4.18E+03	87
NF	—	—	—	—	—
NS	8.21E+04	0.890	-15	4.13E+03	87

Table C–186. Minimum and maximum of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.46E+04	8.59E+04	7.46E+04	8.59E+04
A2	7.91E+04	8.59E+04	7.91E+04	8.59E+04
FD	7.81E+04	8.53E+04	7.81E+04	8.53E+04
L1	7.41E+04	8.56E+04	7.41E+04	8.56E+04
L3	7.79E+04	8.56E+04	7.79E+04	8.56E+04
L4	7.76E+04	8.61E+04	7.76E+04	8.60E+04
NF	—	—	—	—
NS	7.80E+04	8.63E+04	7.81E+04	8.62E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-94. Time history of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

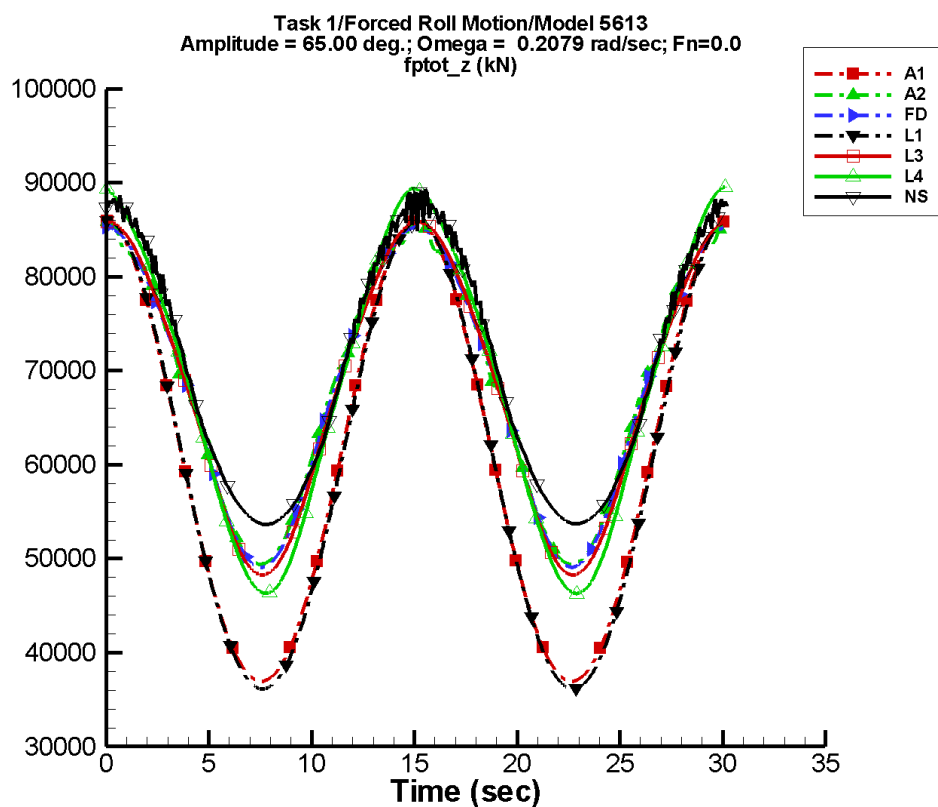
Table C–187. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.33E+04	2.45	-164	1.24E+04	90
A2	7.75E+04	7.19	71	7.82E+03	91
FD	7.75E+04	4.33	-176	7.58E+03	90
L1	7.29E+04	12.0	120	1.26E+04	89
L3	7.73E+04	19.6	119	8.07E+03	89
L4	7.74E+04	22.0	-167	9.06E+03	87
NF	—	—	—	—	—
NS	7.79E+04	2.42	-21	8.81E+03	86

Table C–188. Minimum and maximum of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.11E+04	8.59E+04	6.11E+04	8.59E+04
A2	6.94E+04	8.59E+04	6.94E+04	8.59E+04
FD	7.00E+04	8.53E+04	7.01E+04	8.53E+04
L1	6.05E+04	8.57E+04	6.05E+04	8.57E+04
L3	6.94E+04	8.57E+04	6.94E+04	8.57E+04
L4	6.85E+04	8.70E+04	6.86E+04	8.69E+04
NF	—	—	—	—
NS	6.92E+04	8.74E+04	6.92E+04	8.67E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-95. Time history of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

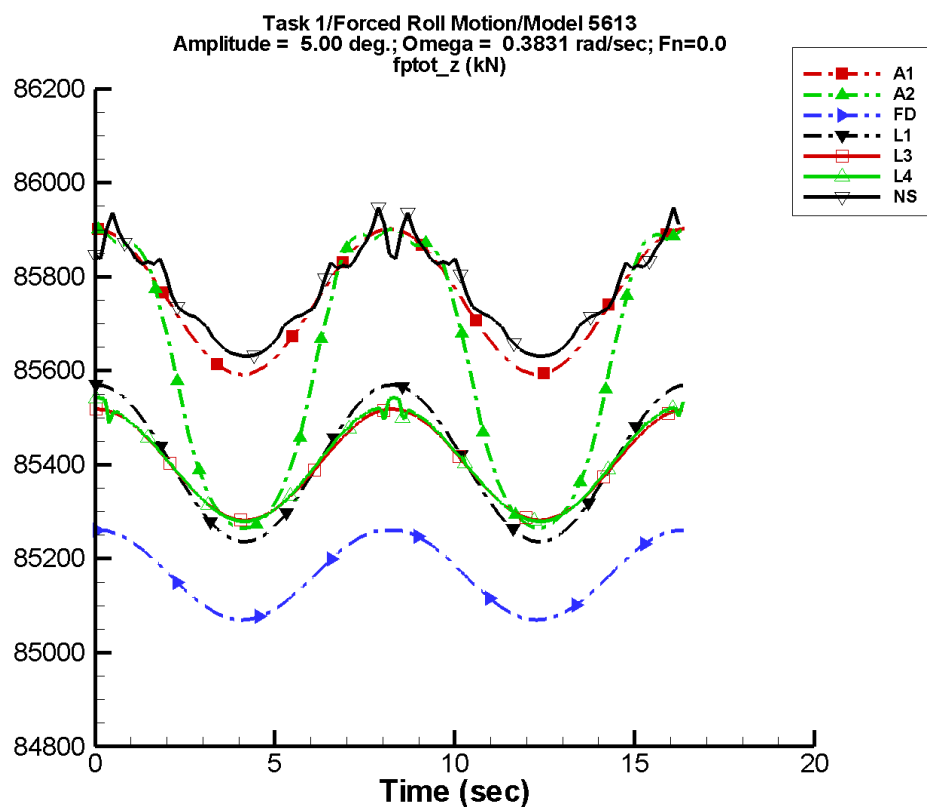
Table C–189. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.07E+04	9.62	-163	2.45E+04	90
A2	6.84E+04	29.2	-2	1.75E+04	91
FD	6.82E+04	29.3	14	1.76E+04	90
L1	6.03E+04	50.7	120	2.48E+04	89
L3	6.80E+04	47.0	-55	1.83E+04	89
L4	6.83E+04	74.8	-95	2.06E+04	87
NF	—	—	—	—	—
NS	7.03E+04	9.05	-163	1.74E+04	85

Table C–190. Minimum and maximum of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.69E+04	8.59E+04	3.70E+04	8.59E+04
A2	4.94E+04	8.59E+04	4.95E+04	8.59E+04
FD	4.91E+04	8.53E+04	4.92E+04	8.53E+04
L1	3.61E+04	8.59E+04	3.62E+04	8.59E+04
L3	4.83E+04	8.59E+04	4.83E+04	8.58E+04
L4	4.63E+04	8.96E+04	4.63E+04	8.94E+04
NF	—	—	—	—
NS	5.36E+04	8.93E+04	5.37E+04	8.79E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-96. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

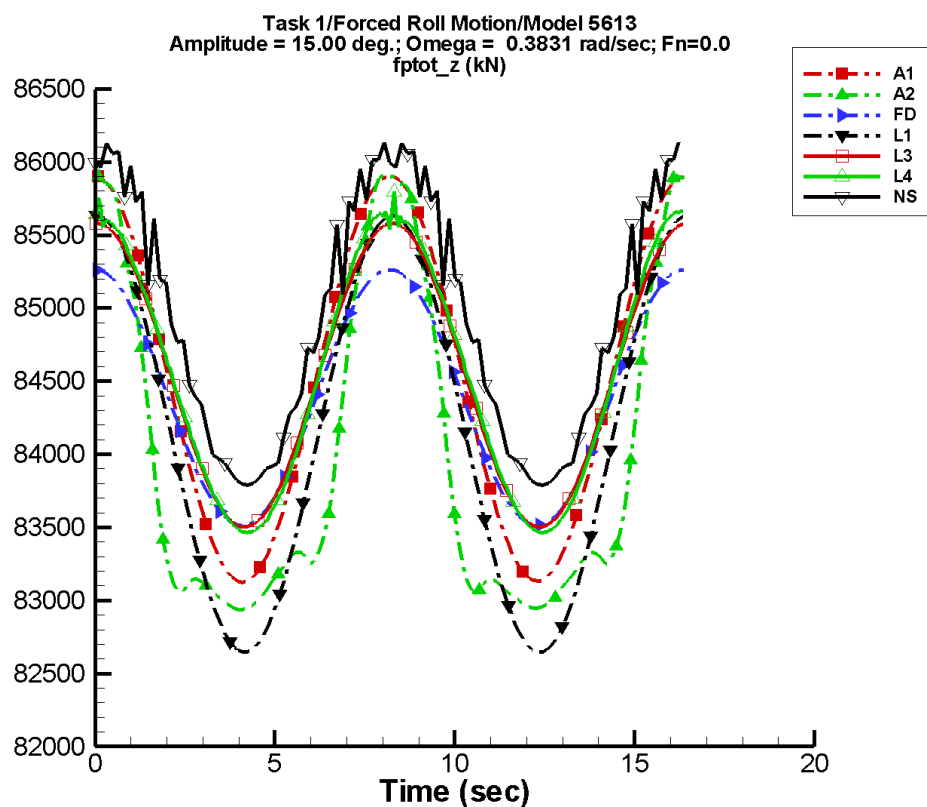
Table C–191. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	3.45E-02	156	155.	90
A2	8.56E+04	0.626	-44	344.	87
FD	8.52E+04	2.61E-02	-55	96.6	90
L1	8.54E+04	5.22E-02	172	167.	87
L3	8.54E+04	7.42E-02	164	118.	87
L4	8.54E+04	0.305	-123	123.	88
NF	—	—	—	—	—
NS	8.58E+04	3.37E-02	-149	129.	86

Table C–192. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.53E+04	8.59E+04	8.53E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.52E+04	8.56E+04	8.52E+04	8.56E+04
L3	8.53E+04	8.55E+04	8.53E+04	8.55E+04
L4	8.53E+04	8.55E+04	8.53E+04	8.55E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.56E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-97. Time history of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

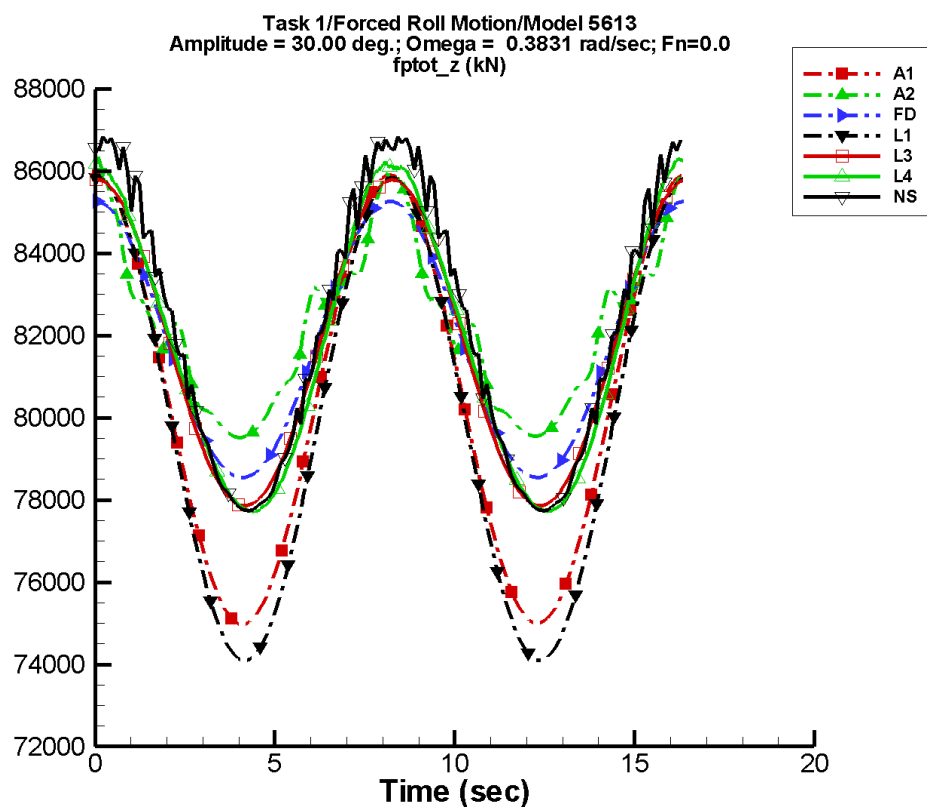
Table C–193. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.45E+04	0.237	158	1.39E+03	90
A2	8.40E+04	5.68	171	1.43E+03	92
FD	8.44E+04	8.09E-02	103	877.	90
L1	8.41E+04	0.192	152	1.49E+03	87
L3	8.45E+04	0.242	150	1.04E+03	87
L4	8.46E+04	5.74	-145	1.09E+03	87
NF	—	—	—	—	—
NS	8.49E+04	0.339	-144	1.15E+03	85

Table C–194. Minimum and maximum of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.31E+04	8.59E+04	8.31E+04	8.59E+04
A2	8.29E+04	8.59E+04	8.29E+04	8.59E+04
FD	8.35E+04	8.53E+04	8.35E+04	8.53E+04
L1	8.26E+04	8.56E+04	8.27E+04	8.56E+04
L3	8.35E+04	8.56E+04	8.35E+04	8.56E+04
L4	8.35E+04	8.58E+04	8.35E+04	8.57E+04
NF	—	—	—	—
NS	8.38E+04	8.61E+04	8.38E+04	8.61E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-98. Time history of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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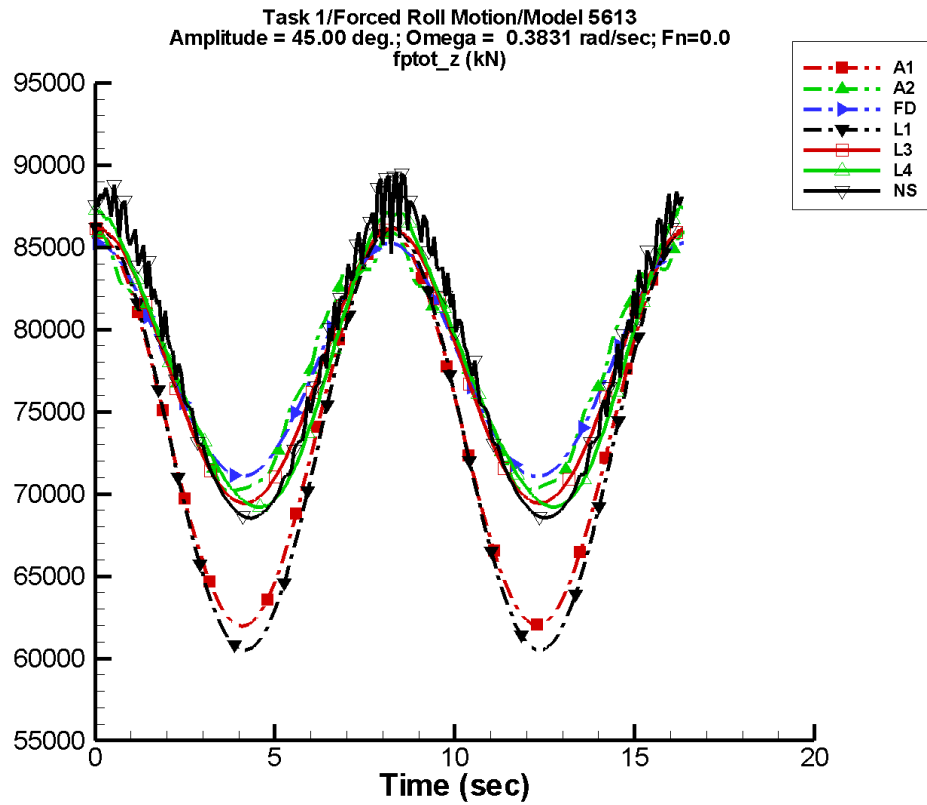
Table C–195. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.04E+04	0.807	164	5.46E+03	90
A2	8.22E+04	12.0	129	2.64E+03	96
FD	8.18E+04	2.96	121	3.36E+03	90
L1	7.99E+04	2.69	148	5.87E+03	87
L3	8.18E+04	5.45	148	3.97E+03	87
L4	8.18E+04	27.5	-147	4.15E+03	84
NF	—	—	—	—	—
NS	8.22E+04	1.37	-145	4.51E+03	84

Table C–196. Minimum and maximum of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.50E+04	8.59E+04	7.50E+04	8.59E+04
A2	7.95E+04	8.59E+04	7.95E+04	8.58E+04
FD	7.85E+04	8.53E+04	7.86E+04	8.52E+04
L1	7.41E+04	8.58E+04	7.41E+04	8.58E+04
L3	7.79E+04	8.58E+04	7.79E+04	8.58E+04
L4	7.77E+04	8.64E+04	7.77E+04	8.62E+04
NF	—	—	—	—
NS	7.77E+04	8.69E+04	7.78E+04	8.67E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-99. Time history of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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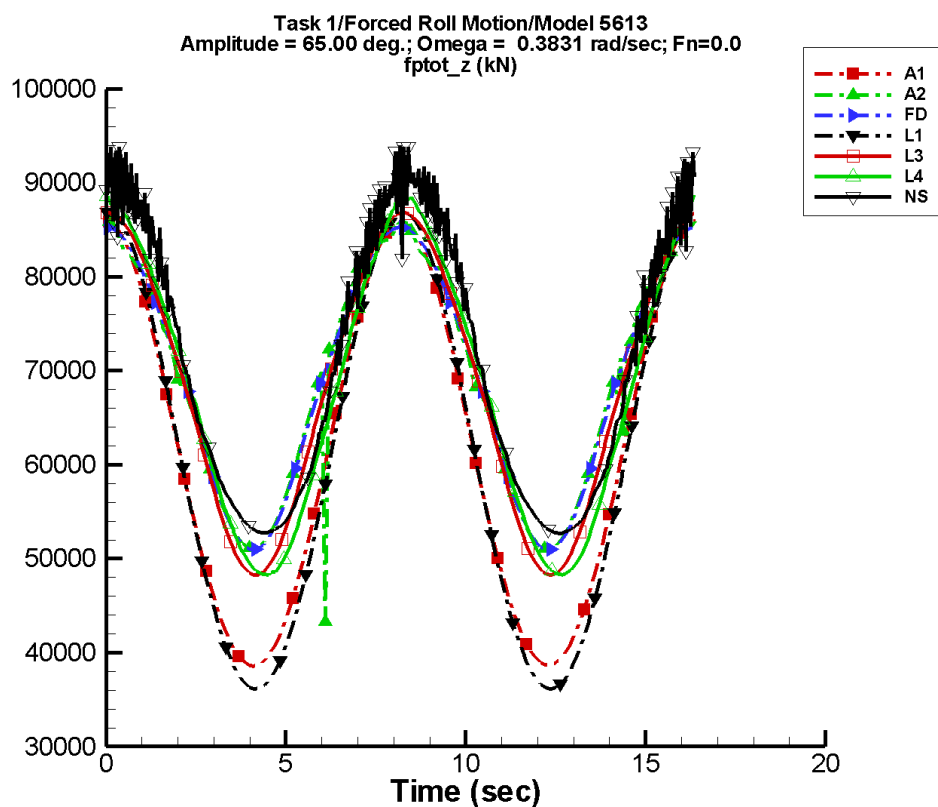
Table C–197. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.38E+04	1.56	-170	1.20E+04	90
A2	7.80E+04	8.14	97	7.38E+03	93
FD	7.80E+04	8.71	120	7.06E+03	90
L1	7.32E+04	13.1	148	1.28E+04	87
L3	7.76E+04	19.3	147	8.30E+03	87
L4	7.75E+04	74.3	-168	8.63E+03	80
NF	—	—	—	—	—
NS	7.81E+04	3.83	-148	9.74E+03	82

Table C–198. Minimum and maximum of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.20E+04	8.59E+04	6.19E+04	8.58E+04
A2	7.02E+04	8.59E+04	7.02E+04	8.57E+04
FD	7.10E+04	8.53E+04	7.11E+04	8.52E+04
L1	6.05E+04	8.62E+04	6.06E+04	8.62E+04
L3	6.94E+04	8.61E+04	6.95E+04	8.61E+04
L4	6.92E+04	8.75E+04	6.92E+04	8.72E+04
NF	—	—	—	—
NS	6.85E+04	8.95E+04	6.86E+04	8.80E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-100. Time history of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

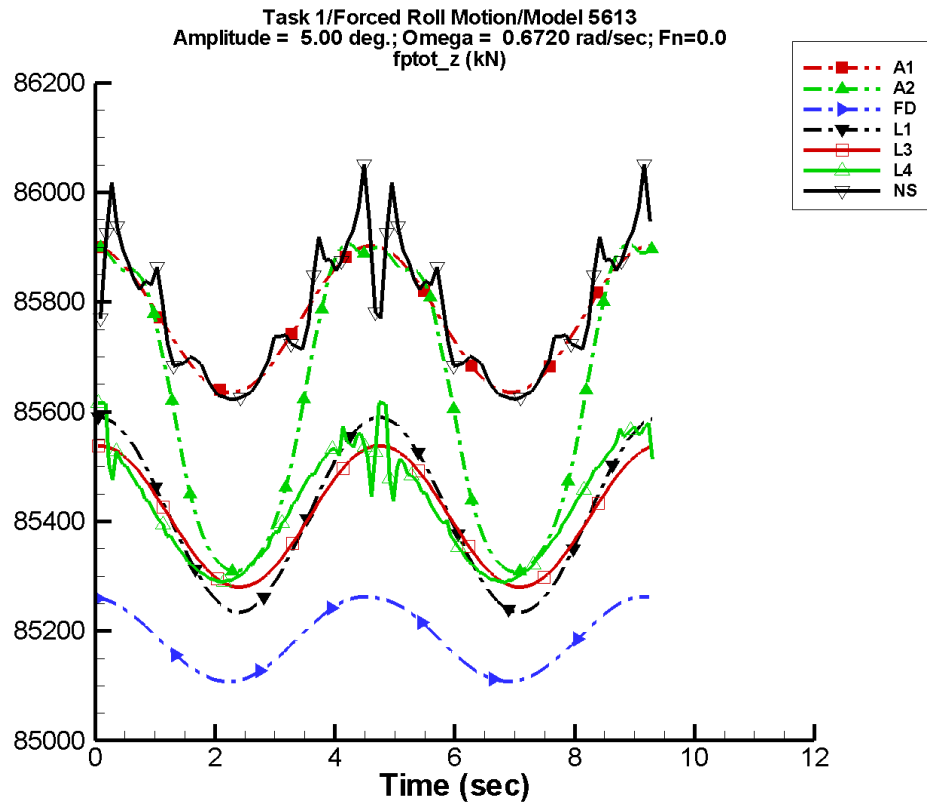
Table C–199. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.16E+04	4.41	-125	2.36E+04	90
A2	6.91E+04	201.	134	1.67E+04	91
FD	6.92E+04	71.7	-58	1.67E+04	90
L1	6.08E+04	54.7	147	2.53E+04	87
L3	6.84E+04	85.5	-30	1.88E+04	87
L4	6.81E+04	86.5	-114	1.93E+04	79
NF	—	—	—	—	—
NS	7.07E+04	7.65	-69	1.93E+04	80

Table C–200. Minimum and maximum of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.86E+04	8.59E+04	3.85E+04	8.57E+04
A2	4.33E+04	8.59E+04	5.14E+04	8.56E+04
FD	5.09E+04	8.53E+04	5.13E+04	8.51E+04
L1	3.61E+04	8.69E+04	3.63E+04	8.69E+04
L3	4.83E+04	8.68E+04	4.84E+04	8.68E+04
L4	4.82E+04	8.89E+04	4.84E+04	8.83E+04
NF	—	—	—	—
NS	5.27E+04	9.41E+04	5.28E+04	9.13E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-101. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

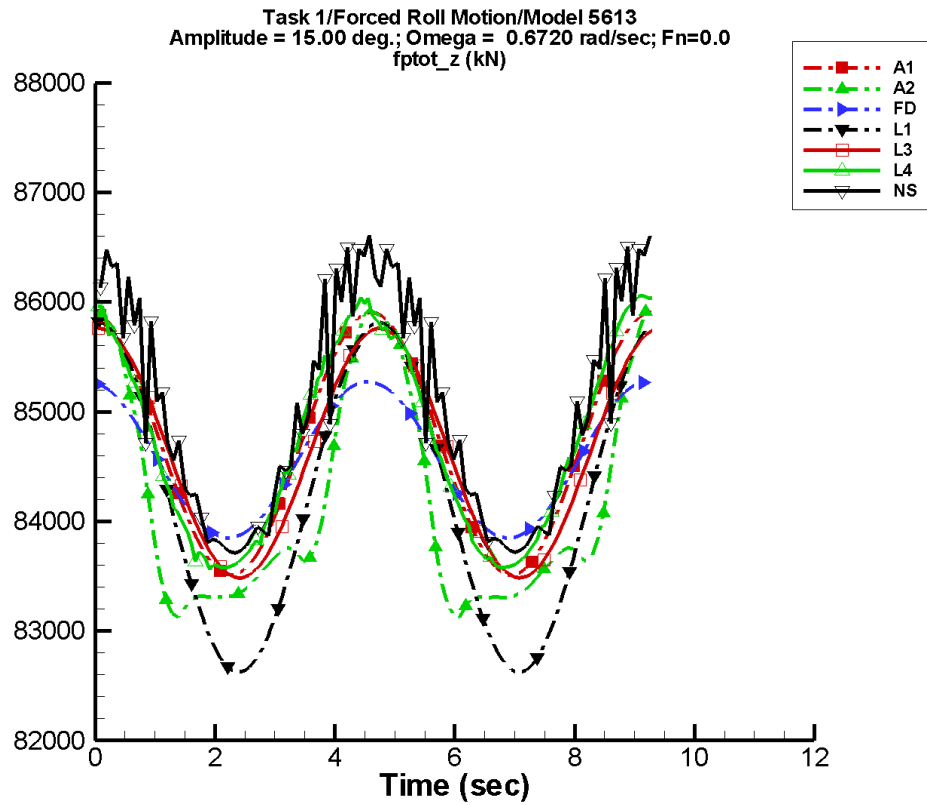
Table C–201. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.58E+04	7.60E-02	2	134.	95
A2	8.56E+04	1.47	-26	320.	88
FD	8.52E+04	9.21E-02	-31	78.2	99
L1	8.54E+04	2.16E-02	113	178.	85
L3	8.54E+04	3.24E-02	170	129.	84
L4	8.54E+04	4.34	95	135.	107
NF	—	—	—	—	—
NS	8.58E+04	0.103	-169	150.	95

Table C–202. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.53E+04	8.59E+04	8.53E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.52E+04	8.56E+04	8.52E+04	8.56E+04
L3	8.53E+04	8.55E+04	8.53E+04	8.55E+04
L4	8.53E+04	8.56E+04	8.53E+04	8.56E+04
NF	—	—	—	—
NS	8.56E+04	8.61E+04	8.56E+04	8.60E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-102. Time history of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

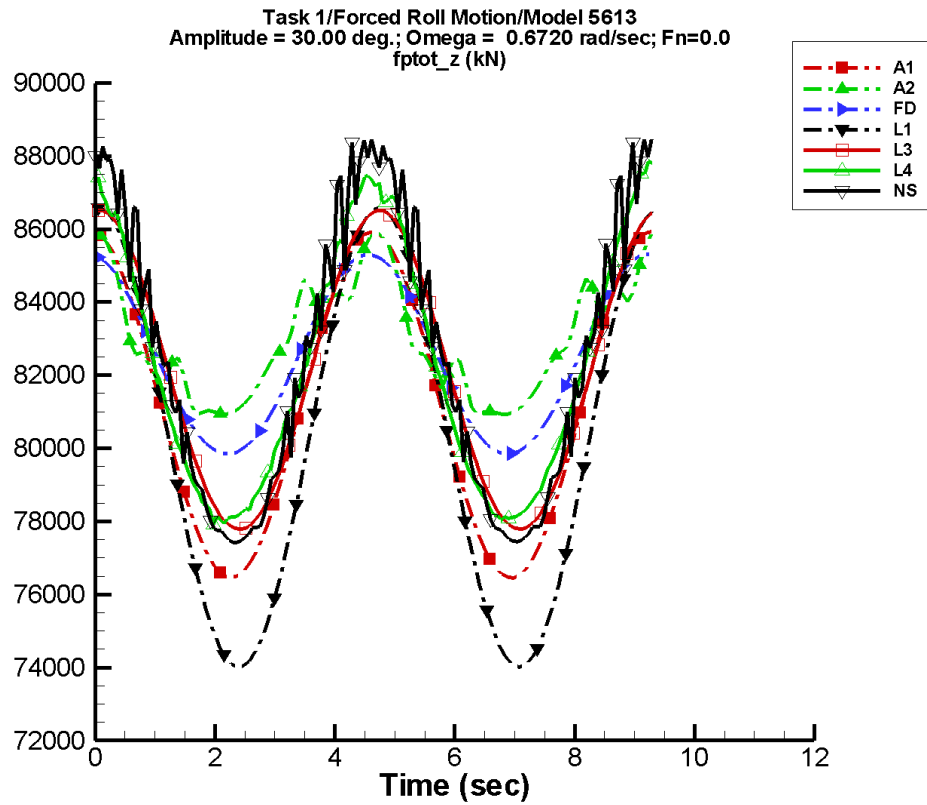
Table C–203. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.47E+04	0.578	-5	1.20E+03	95
A2	8.42E+04	34.0	174	1.28E+03	96
FD	8.46E+04	9.61E-02	166	713.	99
L1	8.42E+04	3.44E-02	-175	1.59E+03	85
L3	8.46E+04	2.72E-02	93	1.14E+03	84
L4	8.47E+04	20.6	164	1.21E+03	103
NF	—	—	—	—	—
NS	8.50E+04	1.50	-178	1.34E+03	93

Table C–204. Minimum and maximum of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.35E+04	8.59E+04	8.36E+04	8.59E+04
A2	8.31E+04	8.59E+04	8.32E+04	8.58E+04
FD	8.38E+04	8.53E+04	8.39E+04	8.52E+04
L1	8.26E+04	8.58E+04	8.26E+04	8.58E+04
L3	8.35E+04	8.58E+04	8.35E+04	8.58E+04
L4	8.36E+04	8.61E+04	8.36E+04	8.60E+04
NF	—	—	—	—
NS	8.37E+04	8.66E+04	8.38E+04	8.65E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-103. Time history of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

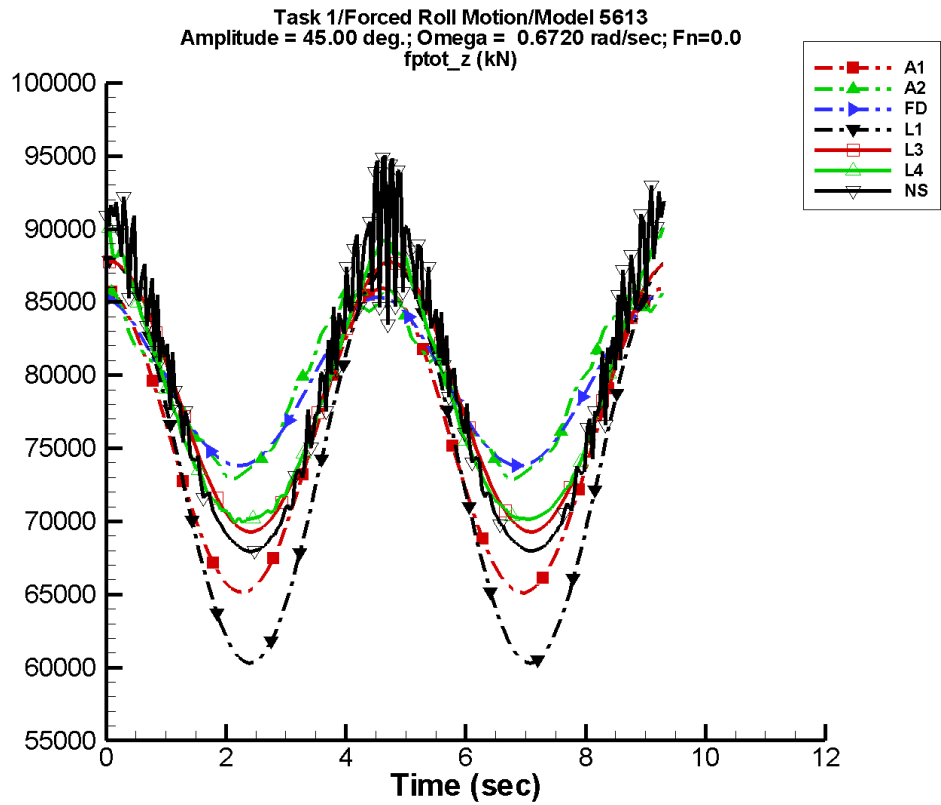
Table C–205. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.12E+04	1.46	-25	4.73E+03	95
A2	8.30E+04	15.1	114	2.08E+03	114
FD	8.25E+04	3.64	156	2.73E+03	99
L1	8.03E+04	0.635	-13	6.28E+03	85
L3	8.21E+04	1.85	-11	4.36E+03	84
L4	8.23E+04	39.8	175	4.57E+03	97
NF	—	—	—	—	—
NS	8.25E+04	6.39	-176	5.29E+03	91

Table C–206. Minimum and maximum of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.65E+04	8.59E+04	7.67E+04	8.57E+04
A2	8.09E+04	8.59E+04	8.10E+04	8.55E+04
FD	7.98E+04	8.53E+04	8.00E+04	8.52E+04
L1	7.40E+04	8.66E+04	7.41E+04	8.66E+04
L3	7.78E+04	8.65E+04	7.78E+04	8.65E+04
L4	7.79E+04	8.79E+04	7.81E+04	8.75E+04
NF	—	—	—	—
NS	7.74E+04	8.85E+04	7.75E+04	8.82E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-104. Time history of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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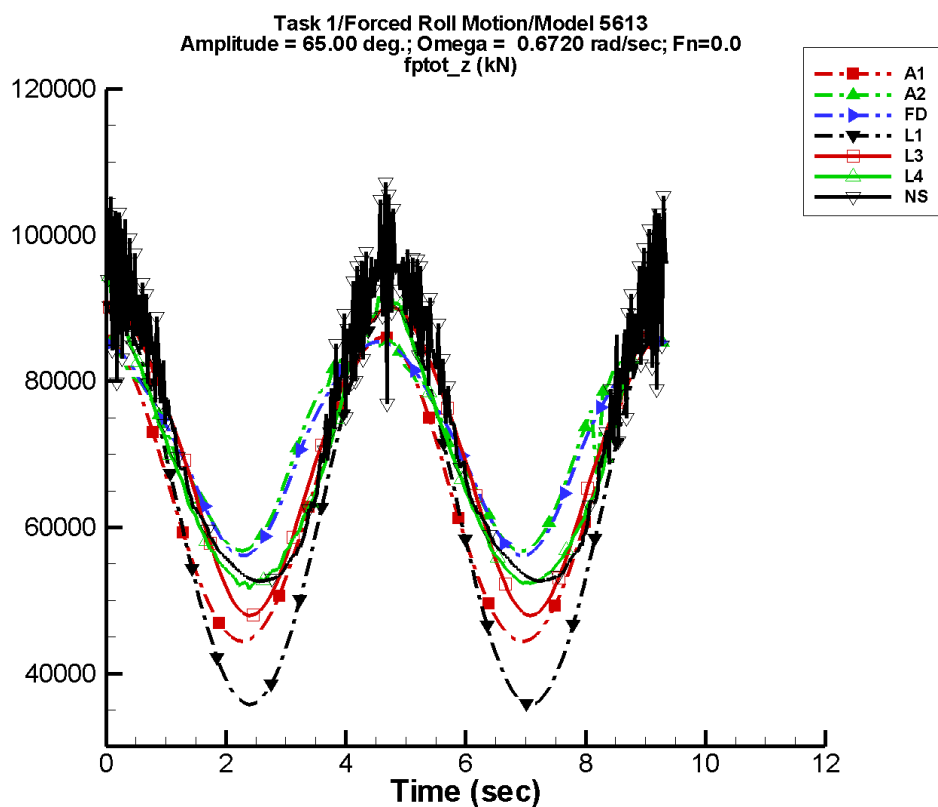
Table C–207. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.54E+04	2.86	-99	1.04E+04	95
A2	7.96E+04	44.9	16	6.00E+03	105
FD	7.94E+04	9.75	160	5.74E+03	100
L1	7.39E+04	4.16	-11	1.38E+04	85
L3	7.83E+04	6.82	-11	9.19E+03	84
L4	7.83E+04	104.	152	9.24E+03	90
NF	—	—	—	—	—
NS	7.87E+04	16.1	-168	1.14E+04	87

Table C–208. Minimum and maximum of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.51E+04	8.59E+04	6.56E+04	8.54E+04
A2	7.28E+04	8.59E+04	7.34E+04	8.51E+04
FD	7.38E+04	8.53E+04	7.41E+04	8.50E+04
L1	6.03E+04	8.78E+04	6.05E+04	8.78E+04
L3	6.93E+04	8.77E+04	6.94E+04	8.78E+04
L4	6.99E+04	9.01E+04	7.01E+04	8.94E+04
NF	—	—	—	—
NS	6.79E+04	9.51E+04	6.80E+04	9.15E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-105. Time history of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

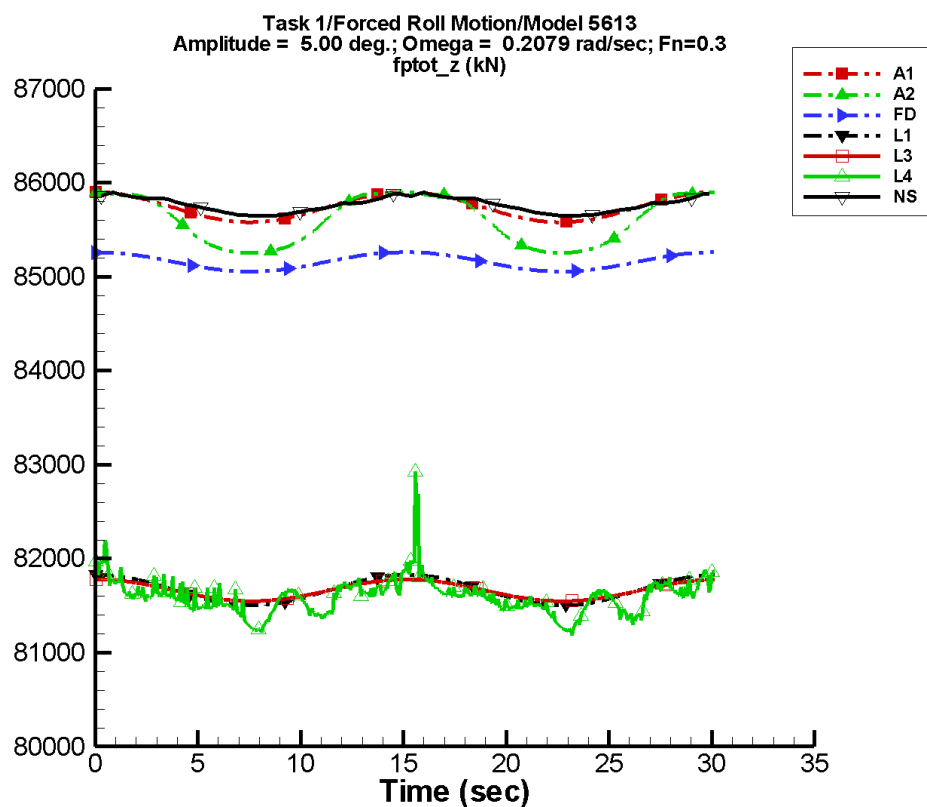
Table C–209. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.47E+04	18.3	-141	2.08E+04	95
A2	7.24E+04	312.	-28	1.40E+04	102
FD	7.19E+04	111.	-32	1.42E+04	97
L1	6.24E+04	19.1	-11	2.72E+04	85
L3	6.99E+04	40.0	165	2.07E+04	84
L4	6.94E+04	154.	172	1.87E+04	88
NF	—	—	—	—	—
NS	7.17E+04	26.4	-169	2.19E+04	82

Table C–210. Minimum and maximum of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.44E+04	8.60E+04	4.53E+04	8.50E+04
A2	5.68E+04	8.61E+04	5.77E+04	8.54E+04
FD	5.61E+04	8.54E+04	5.71E+04	8.48E+04
L1	3.58E+04	9.03E+04	3.61E+04	9.03E+04
L3	4.79E+04	9.02E+04	4.84E+04	9.02E+04
L4	5.15E+04	9.49E+04	5.24E+04	9.23E+04
NF	—	—	—	—
NS	5.26E+04	1.07E+05	5.26E+04	9.77E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-106. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

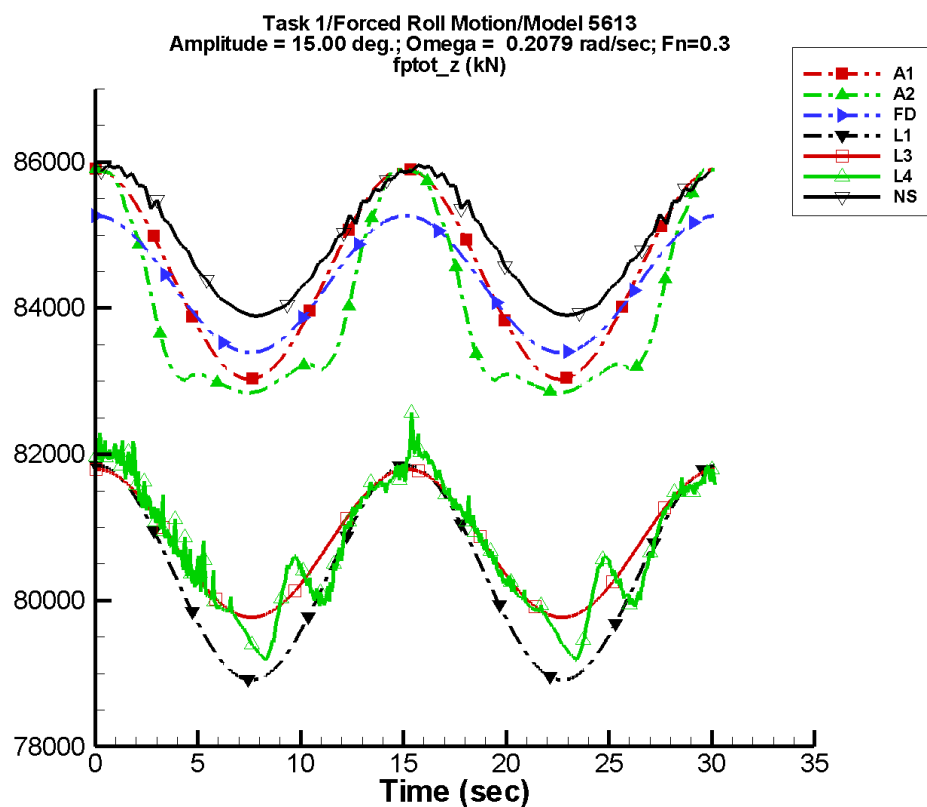
Table C–211. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	2.54E-02	110	161.	91
A2	8.56E+04	0.583	-39	349.	89
FD	8.52E+04	2.67E-02	-52	103.	90
L1	8.17E+04	1.76E-02	-80	164.	89
L3	8.17E+04	0.286	-98	116.	88
L4	8.16E+04	5.11	-54	184.	85
NF	—	—	—	—	—
NS	8.58E+04	0.200	-122	111.	74

Table C–212. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.53E+04	8.59E+04	8.53E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.15E+04	8.18E+04	8.15E+04	8.18E+04
L3	8.15E+04	8.18E+04	8.15E+04	8.18E+04
L4	8.12E+04	8.29E+04	8.12E+04	8.22E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.57E+04	8.59E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-107. Time history of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

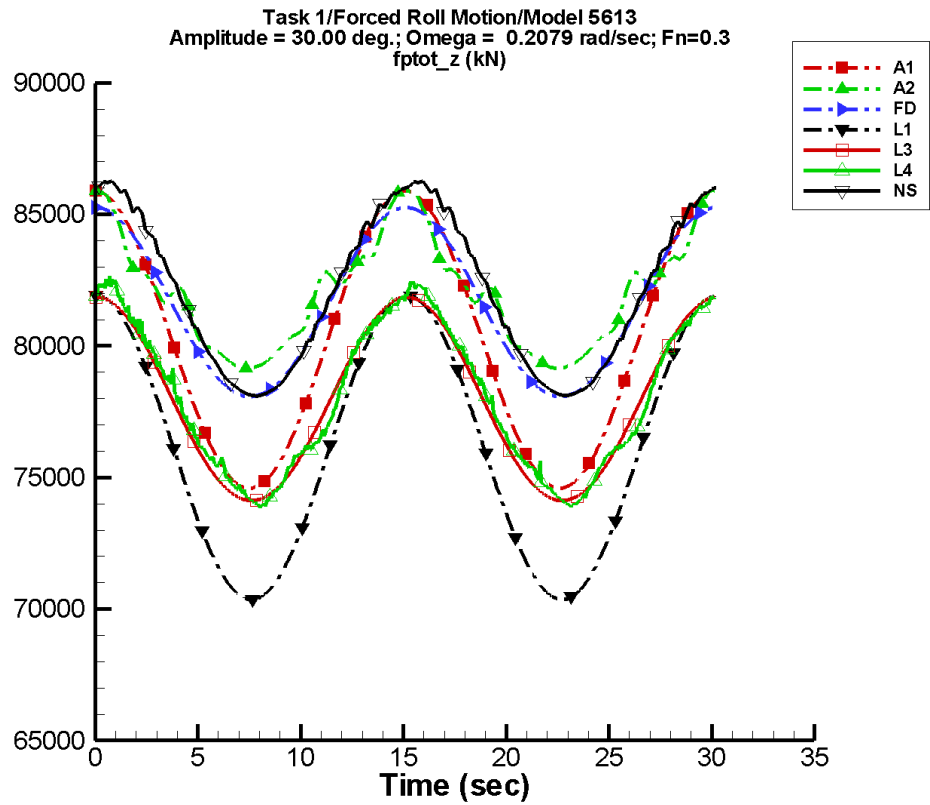
Table C–213. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.45E+04	8.26E-02	145	1.44E+03	91
A2	8.39E+04	8.35	174	1.48E+03	92
FD	8.43E+04	4.07E-02	-123	938.	90
L1	8.04E+04	0.134	126	1.47E+03	89
L3	8.08E+04	0.194	-152	1.01E+03	89
L4	8.07E+04	25.6	57	1.14E+03	82
NF	—	—	—	—	—
NS	8.49E+04	0.939	-112	1.01E+03	81

Table C–214. Minimum and maximum of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.30E+04	8.59E+04	8.30E+04	8.59E+04
A2	8.28E+04	8.59E+04	8.28E+04	8.59E+04
FD	8.34E+04	8.53E+04	8.34E+04	8.53E+04
L1	7.89E+04	8.18E+04	7.89E+04	8.18E+04
L3	7.98E+04	8.18E+04	7.98E+04	8.18E+04
L4	7.92E+04	8.26E+04	7.92E+04	8.22E+04
NF	—	—	—	—
NS	8.39E+04	8.60E+04	8.39E+04	8.59E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-108. Time history of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

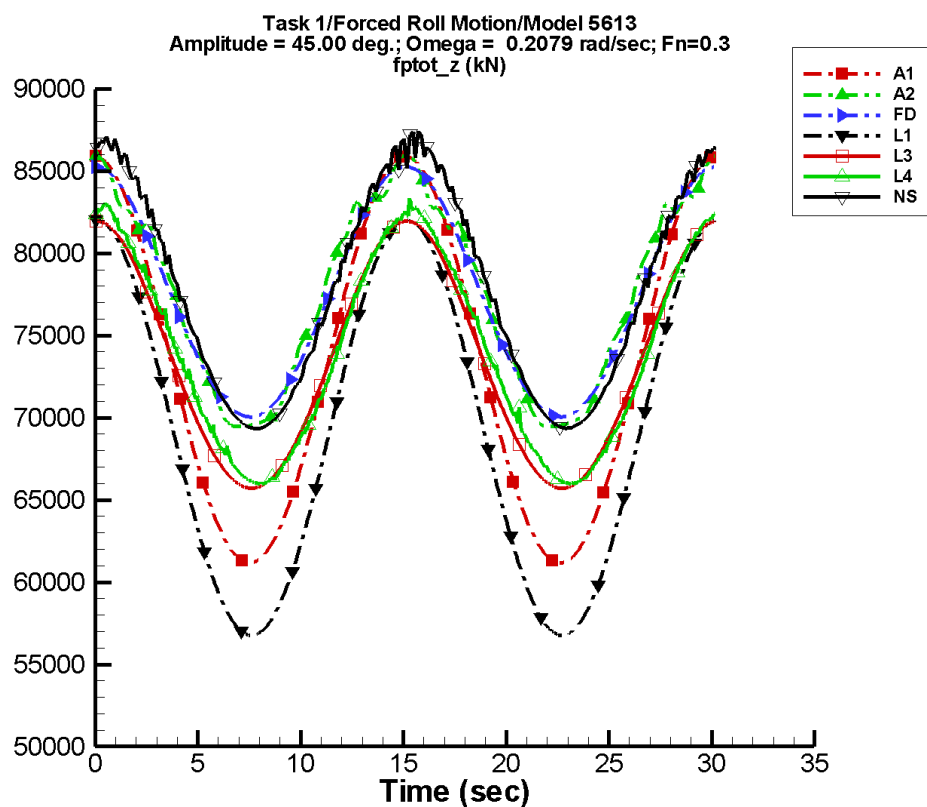
Table C–215. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.02E+04	0.516	-170	5.66E+03	91
A2	8.20E+04	10.2	128	2.82E+03	94
FD	8.16E+04	1.42	-171	3.60E+03	90
L1	7.61E+04	2.38	120	5.77E+03	89
L3	7.79E+04	4.52	123	3.86E+03	89
L4	7.80E+04	32.1	76	3.87E+03	83
NF	—	—	—	—	—
NS	8.21E+04	2.24	-96	4.01E+03	83

Table C–216. Minimum and maximum of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.46E+04	8.59E+04	7.46E+04	8.59E+04
A2	7.91E+04	8.59E+04	7.91E+04	8.59E+04
FD	7.81E+04	8.53E+04	7.81E+04	8.53E+04
L1	7.04E+04	8.19E+04	7.04E+04	8.19E+04
L3	7.41E+04	8.19E+04	7.41E+04	8.18E+04
L4	7.38E+04	8.27E+04	7.40E+04	8.24E+04
NF	—	—	—	—
NS	7.81E+04	8.63E+04	7.82E+04	8.61E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-109. Time history of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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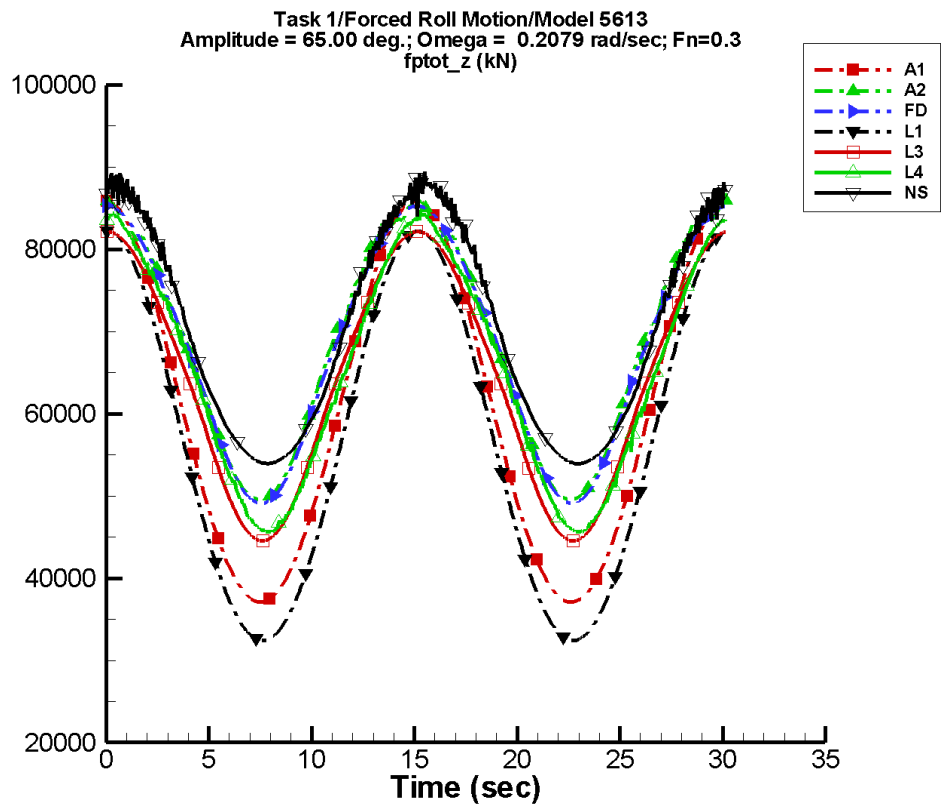
Table C–217. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.34E+04	2.23	-160	1.24E+04	91
A2	7.76E+04	7.18	69	7.78E+03	92
FD	7.75E+04	4.33	-176	7.58E+03	90
L1	6.92E+04	12.0	120	1.26E+04	89
L3	7.36E+04	19.4	120	8.07E+03	89
L4	7.39E+04	32.2	102	8.08E+03	82
NF	—	—	—	—	—
NS	7.79E+04	4.23	-81	8.61E+03	83

Table C–218. Minimum and maximum of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.12E+04	8.59E+04	6.12E+04	8.59E+04
A2	6.95E+04	8.59E+04	6.94E+04	8.59E+04
FD	7.00E+04	8.53E+04	7.01E+04	8.53E+04
L1	5.68E+04	8.20E+04	5.68E+04	8.20E+04
L3	6.57E+04	8.20E+04	6.57E+04	8.19E+04
L4	6.60E+04	8.33E+04	6.60E+04	8.28E+04
NF	—	—	—	—
NS	6.93E+04	8.75E+04	6.94E+04	8.67E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-110. Time history of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

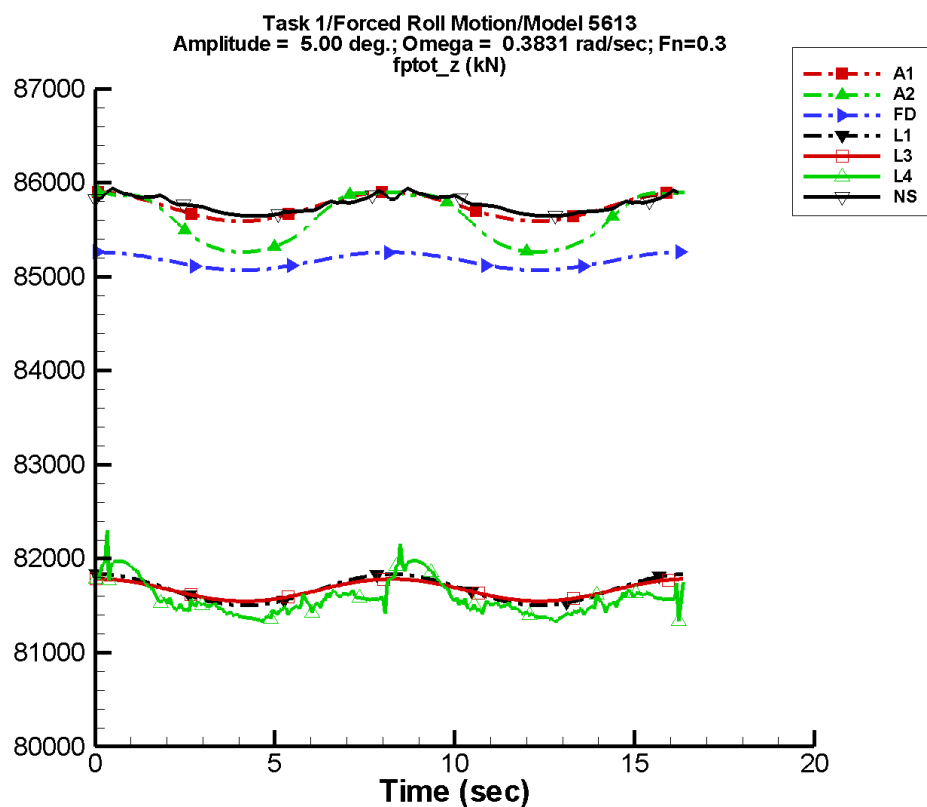
Table C–219. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.08E+04	8.83	-156	2.44E+04	91
A2	6.85E+04	30.4	-3	1.74E+04	92
FD	6.82E+04	29.3	14	1.76E+04	90
L1	5.66E+04	50.7	120	2.48E+04	89
L3	6.42E+04	47.2	-56	1.83E+04	89
L4	6.52E+04	44.8	-83	1.83E+04	82
NF	—	—	—	—	—
NS	7.03E+04	24.5	-21	1.71E+04	83

Table C–220. Minimum and maximum of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.71E+04	8.59E+04	3.71E+04	8.59E+04
A2	4.95E+04	8.59E+04	4.96E+04	8.58E+04
FD	4.91E+04	8.53E+04	4.92E+04	8.53E+04
L1	3.24E+04	8.22E+04	3.24E+04	8.22E+04
L3	4.45E+04	8.21E+04	4.46E+04	8.21E+04
L4	4.56E+04	8.47E+04	4.57E+04	8.41E+04
NF	—	—	—	—
NS	5.39E+04	8.94E+04	5.39E+04	8.79E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-111. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

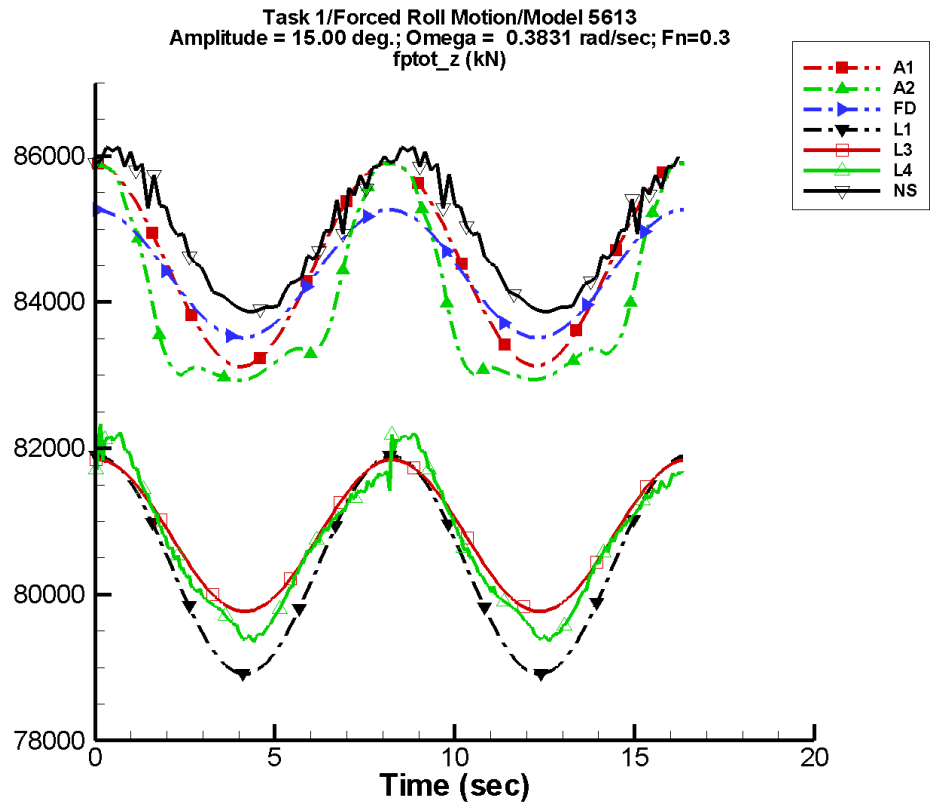
Table C–221. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	4.29E-02	116	155.	92
A2	8.56E+04	0.610	-41	344.	88
FD	8.52E+04	2.44E-02	-52	96.6	90
L1	8.17E+04	2.87E-02	150	167.	87
L3	8.17E+04	0.149	-164	118.	87
L4	8.16E+04	10.5	94	215.	74
NF	—	—	—	—	—
NS	8.58E+04	0.628	174	117.	70

Table C–222. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.53E+04	8.59E+04	8.53E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.15E+04	8.18E+04	8.15E+04	8.18E+04
L3	8.15E+04	8.18E+04	8.15E+04	8.18E+04
L4	8.13E+04	8.23E+04	8.14E+04	8.20E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.57E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-112. Time history of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–223. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.45E+04	0.315	137	1.39E+03	92
A2	8.40E+04	5.75	170	1.43E+03	93
FD	8.44E+04	8.14E-02	103	877.	90
L1	8.04E+04	0.210	152	1.49E+03	87
L3	8.08E+04	0.286	170	1.04E+03	87
L4	8.07E+04	13.5	78	1.23E+03	85
NF	—	—	—	—	—
NS	8.49E+04	3.39	177	1.08E+03	77

Table C–224. Minimum and maximum of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.31E+04	8.59E+04	8.31E+04	8.59E+04
A2	8.29E+04	8.59E+04	8.29E+04	8.59E+04
FD	8.35E+04	8.53E+04	8.35E+04	8.53E+04
L1	7.89E+04	8.19E+04	7.89E+04	8.19E+04
L3	7.98E+04	8.18E+04	7.98E+04	8.18E+04
L4	7.93E+04	8.23E+04	7.94E+04	8.22E+04
NF	—	—	—	—
NS	8.39E+04	8.61E+04	8.39E+04	8.60E+04

TASK 1/ROLL MOTION/MODEL 5613

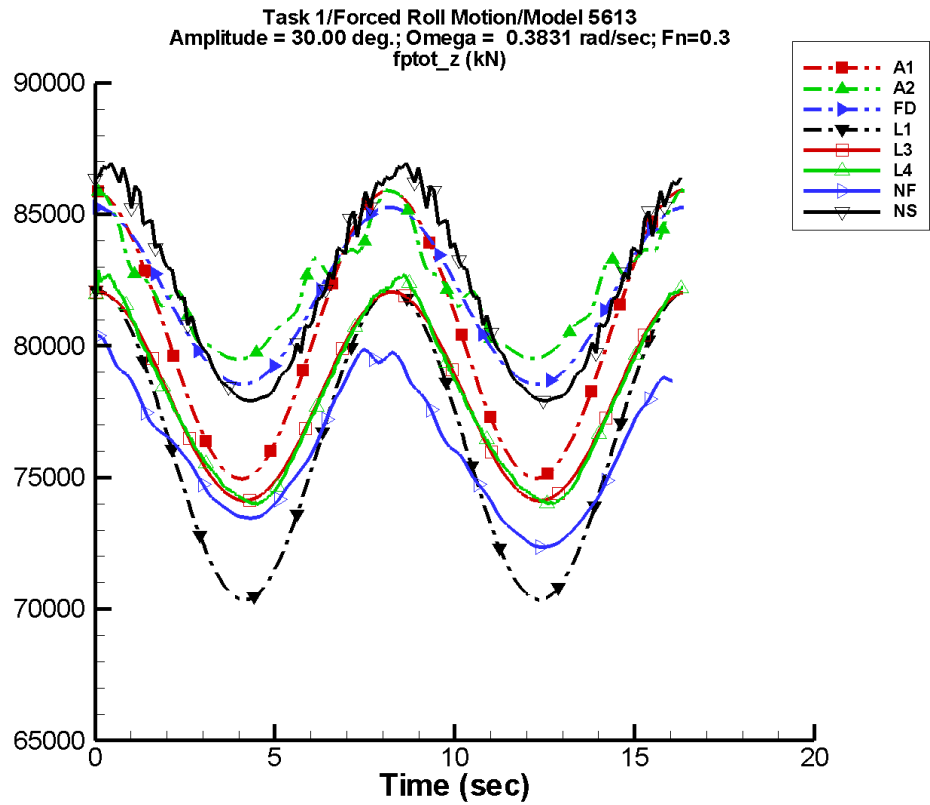


Figure C-113. Time history of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–225. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.04E+04	0.933	157	5.47E+03	92
A2	8.22E+04	12.2	129	2.67E+03	99
FD	8.18E+04	2.96	121	3.36E+03	90
L1	7.62E+04	2.68	148	5.87E+03	87
L3	7.80E+04	5.49	149	3.96E+03	87
L4	7.80E+04	12.8	138	4.07E+03	85
NF	7.60E+04	633.	-43	3.25E+03	62
NS	8.22E+04	8.08	178	4.35E+03	79

Table C–226. Minimum and maximum of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.49E+04	8.59E+04	7.49E+04	8.58E+04
A2	7.95E+04	8.59E+04	7.95E+04	8.58E+04
FD	7.85E+04	8.53E+04	7.86E+04	8.52E+04
L1	7.04E+04	8.21E+04	7.04E+04	8.21E+04
L3	7.41E+04	8.20E+04	7.41E+04	8.21E+04
L4	7.40E+04	8.29E+04	7.40E+04	8.25E+04
NF	7.24E+04	8.04E+04	7.24E+04	8.02E+04
NS	7.79E+04	8.70E+04	7.80E+04	8.67E+04

TASK 1/ROLL MOTION/MODEL 5613

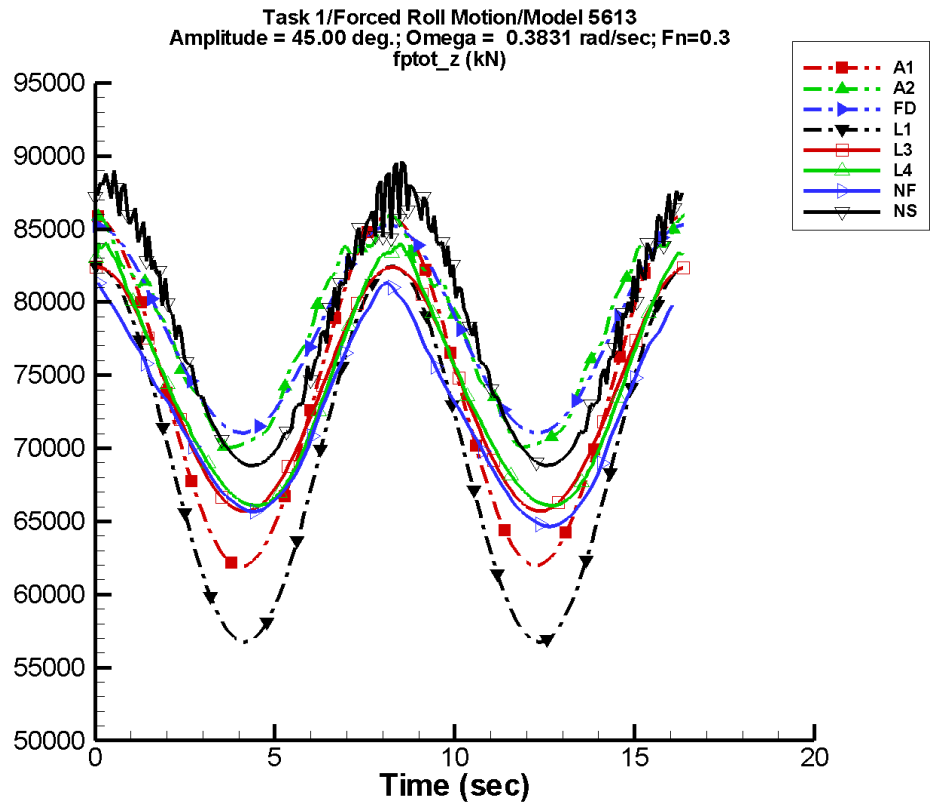


Figure C-114. Time history of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–227. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.38E+04	1.46	-163	1.20E+04	92
A2	7.80E+04	8.00	96	7.43E+03	96
FD	7.80E+04	8.71	120	7.06E+03	90
L1	6.94E+04	13.1	148	1.28E+04	87
L3	7.38E+04	19.4	147	8.30E+03	87
L4	7.40E+04	56.5	161	8.48E+03	83
NF	7.21E+04	768.	-57	7.27E+03	56
NS	7.81E+04	13.4	-180	9.48E+03	79

Table C–228. Minimum and maximum of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.19E+04	8.59E+04	6.19E+04	8.58E+04
A2	7.00E+04	8.59E+04	7.01E+04	8.56E+04
FD	7.10E+04	8.53E+04	7.11E+04	8.52E+04
L1	5.67E+04	8.24E+04	5.68E+04	8.25E+04
L3	6.57E+04	8.24E+04	6.57E+04	8.24E+04
L4	6.61E+04	8.41E+04	6.61E+04	8.37E+04
NF	6.46E+04	8.13E+04	6.48E+04	8.09E+04
NS	6.88E+04	8.97E+04	6.89E+04	8.80E+04

TASK 1/ROLL MOTION/MODEL 5613

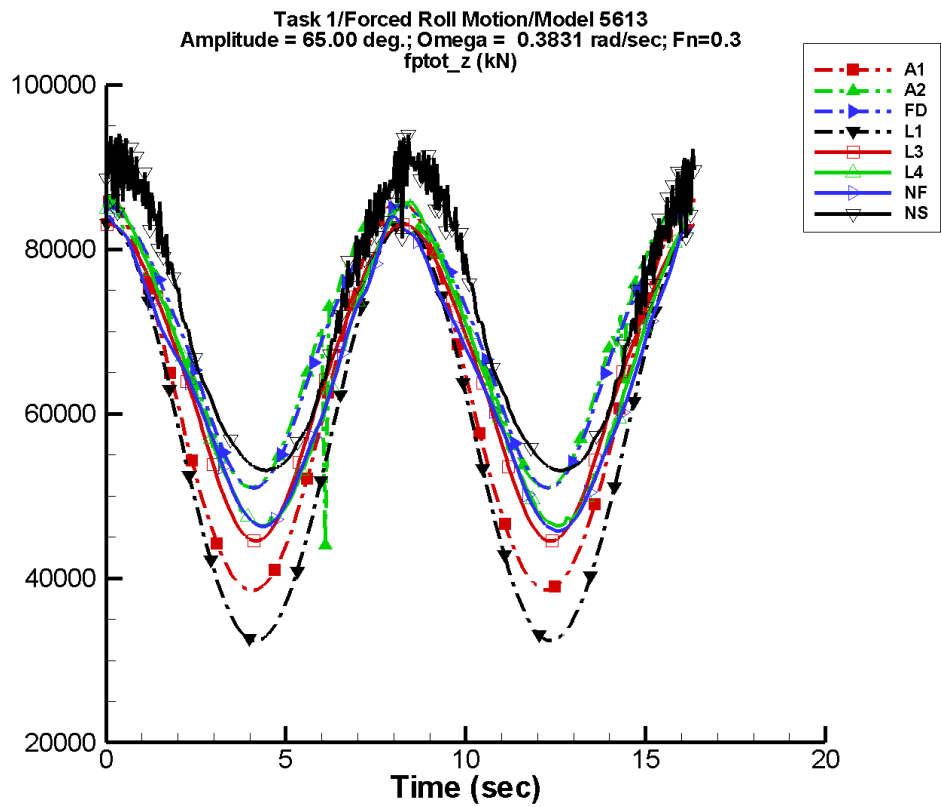


Figure C-115. Time history of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

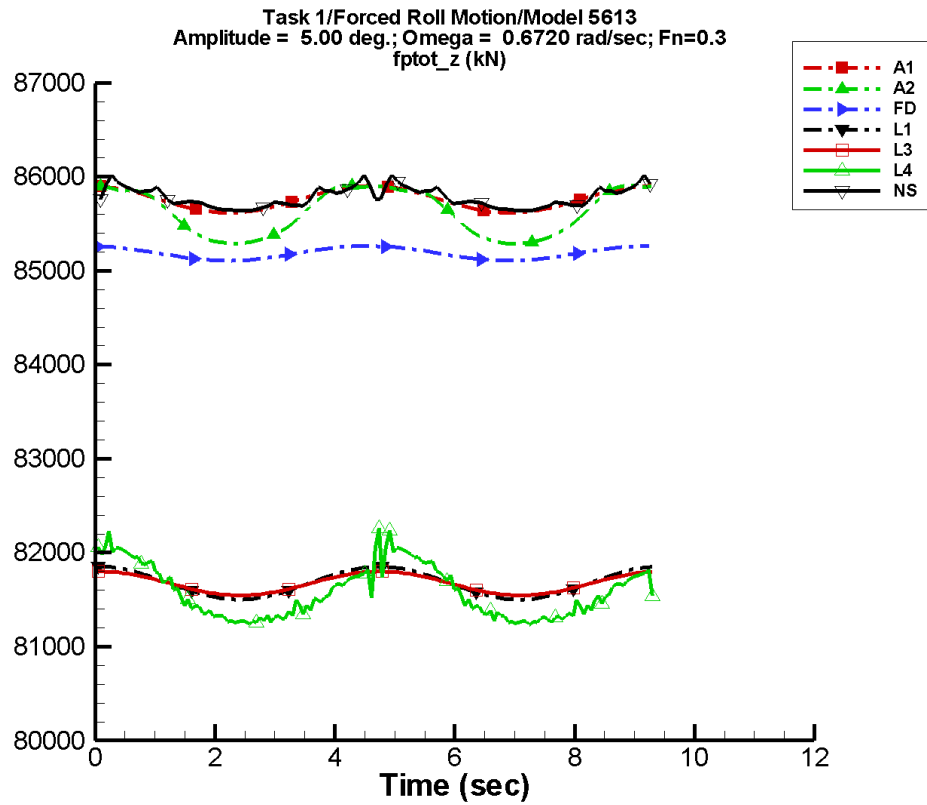
Table C–229. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.16E+04	5.44	-99	2.37E+04	92
A2	6.91E+04	196.	134	1.68E+04	94
FD	6.92E+04	71.7	-58	1.67E+04	90
L1	5.71E+04	54.8	147	2.53E+04	87
L3	6.46E+04	85.5	-30	1.88E+04	87
L4	6.53E+04	24.3	-176	1.88E+04	80
NF	6.39E+04	1.01E+03	-61	1.70E+04	52
NS	7.08E+04	7.98	-144	1.89E+04	78

Table C–230. Minimum and maximum of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.85E+04	8.59E+04	3.84E+04	8.56E+04
A2	4.40E+04	8.59E+04	5.13E+04	8.56E+04
FD	5.09E+04	8.53E+04	5.13E+04	8.51E+04
L1	3.24E+04	8.31E+04	3.25E+04	8.31E+04
L3	4.45E+04	8.30E+04	4.46E+04	8.31E+04
L4	4.64E+04	8.61E+04	4.65E+04	8.54E+04
NF	4.58E+04	8.41E+04	4.63E+04	8.36E+04
NS	5.31E+04	9.41E+04	5.31E+04	9.06E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-116. Time history of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

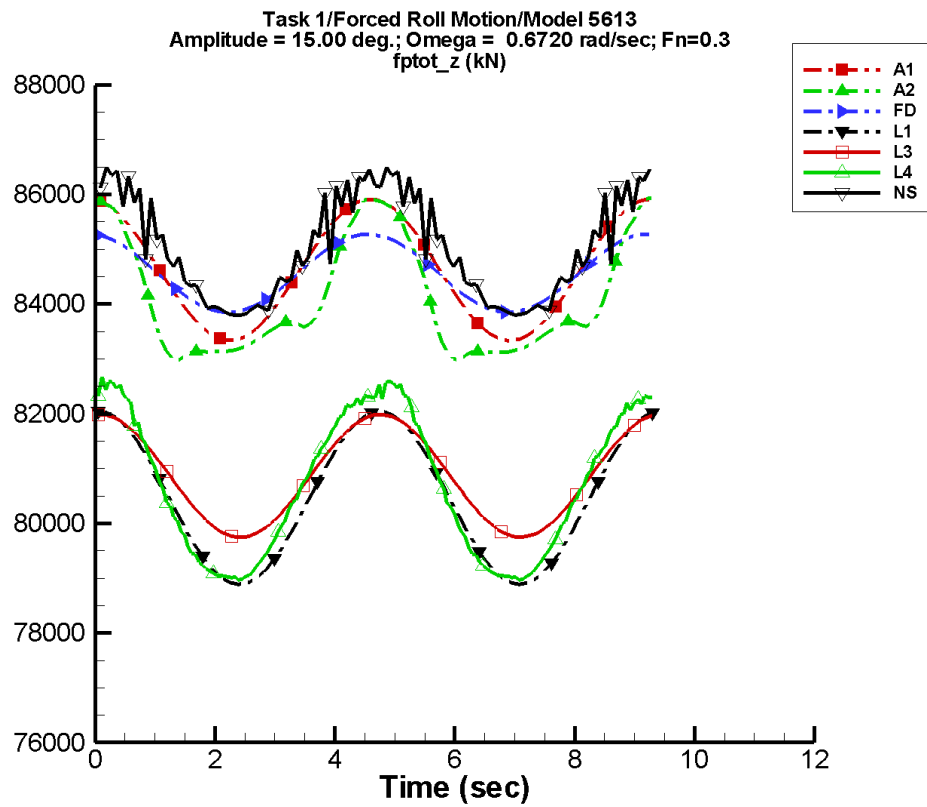
Table C–231. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.58E+04	0.131	50	144.	97
A2	8.56E+04	1.46	-22	329.	88
FD	8.52E+04	9.21E-02	-31	78.2	99
L1	8.17E+04	1.76E-02	169	176.	85
L3	8.17E+04	0.142	128	127.	83
L4	8.16E+04	5.28	73	375.	66
NF	—	—	—	—	—
NS	8.58E+04	0.576	162	133.	83

Table C–232. Minimum and maximum of F_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.53E+04	8.59E+04	8.53E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.15E+04	8.19E+04	8.15E+04	8.19E+04
L3	8.15E+04	8.18E+04	8.15E+04	8.18E+04
L4	8.12E+04	8.23E+04	8.13E+04	8.21E+04
NF	—	—	—	—
NS	8.56E+04	8.60E+04	8.57E+04	8.59E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-117. Time history of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–233. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.46E+04	0.892	47	1.29E+03	97
A2	8.41E+04	34.1	173	1.37E+03	98
FD	8.46E+04	9.64E-02	165	713.	99
L1	8.05E+04	4.04E-02	143	1.57E+03	85
L3	8.09E+04	0.157	125	1.12E+03	83
L4	8.07E+04	9.71	79	1.79E+03	93
NF	—	—	—	—	—
NS	8.50E+04	4.14	165	1.27E+03	87

Table C–234. Minimum and maximum of F_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.33E+04	8.59E+04	8.34E+04	8.59E+04
A2	8.30E+04	8.59E+04	8.31E+04	8.58E+04
FD	8.38E+04	8.53E+04	8.39E+04	8.52E+04
L1	7.89E+04	8.20E+04	7.89E+04	8.20E+04
L3	7.97E+04	8.20E+04	7.98E+04	8.20E+04
L4	7.90E+04	8.27E+04	7.90E+04	8.25E+04
NF	—	—	—	—
NS	8.38E+04	8.65E+04	8.38E+04	8.64E+04

TASK 1/ROLL MOTION/MODEL 5613

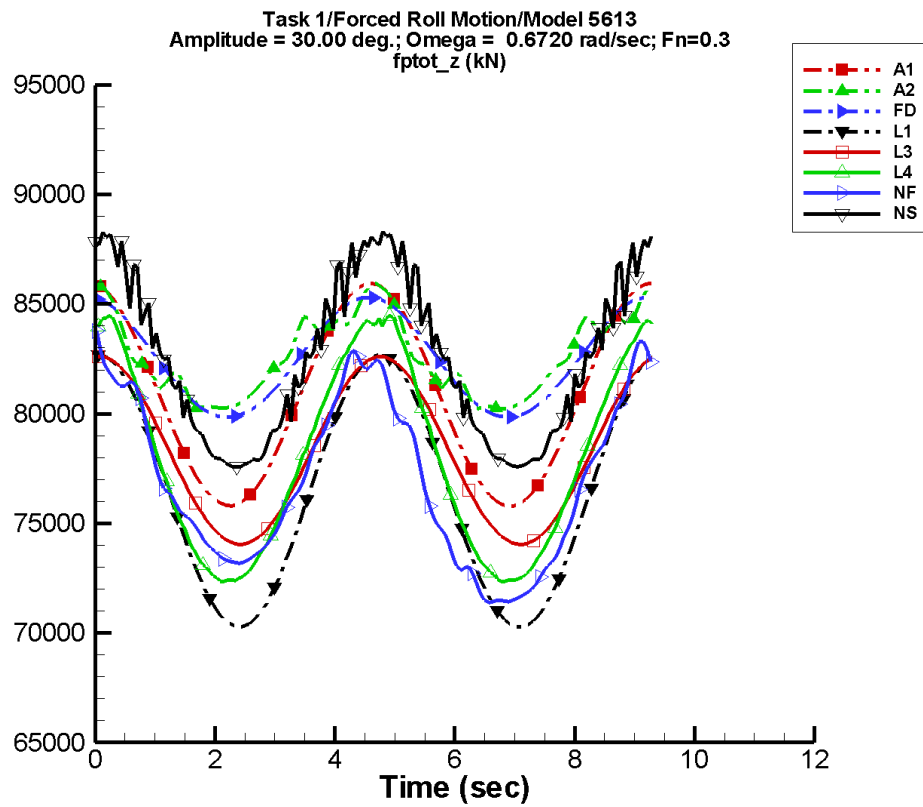


Figure C-118. Time history of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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Table C–235. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.08E+04	2.21	55	5.08E+03	97
A2	8.26E+04	17.4	111	2.45E+03	114
FD	8.25E+04	3.64	156	2.73E+03	99
L1	7.64E+04	0.619	-13	6.20E+03	85
L3	7.83E+04	1.75	-9	4.28E+03	83
L4	7.81E+04	18.1	46	6.01E+03	95
NF	7.66E+04	140.	-93	5.01E+03	98
NS	8.25E+04	12.1	168	5.13E+03	88

Table C–236. Minimum and maximum of F_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.58E+04	8.59E+04	7.60E+04	8.57E+04
A2	8.02E+04	8.59E+04	8.03E+04	8.54E+04
FD	7.98E+04	8.53E+04	8.00E+04	8.52E+04
L1	7.03E+04	8.27E+04	7.04E+04	8.27E+04
L3	7.40E+04	8.26E+04	7.41E+04	8.26E+04
L4	7.23E+04	8.45E+04	7.24E+04	8.42E+04
NF	7.14E+04	8.33E+04	7.14E+04	8.26E+04
NS	7.76E+04	8.84E+04	7.77E+04	8.80E+04

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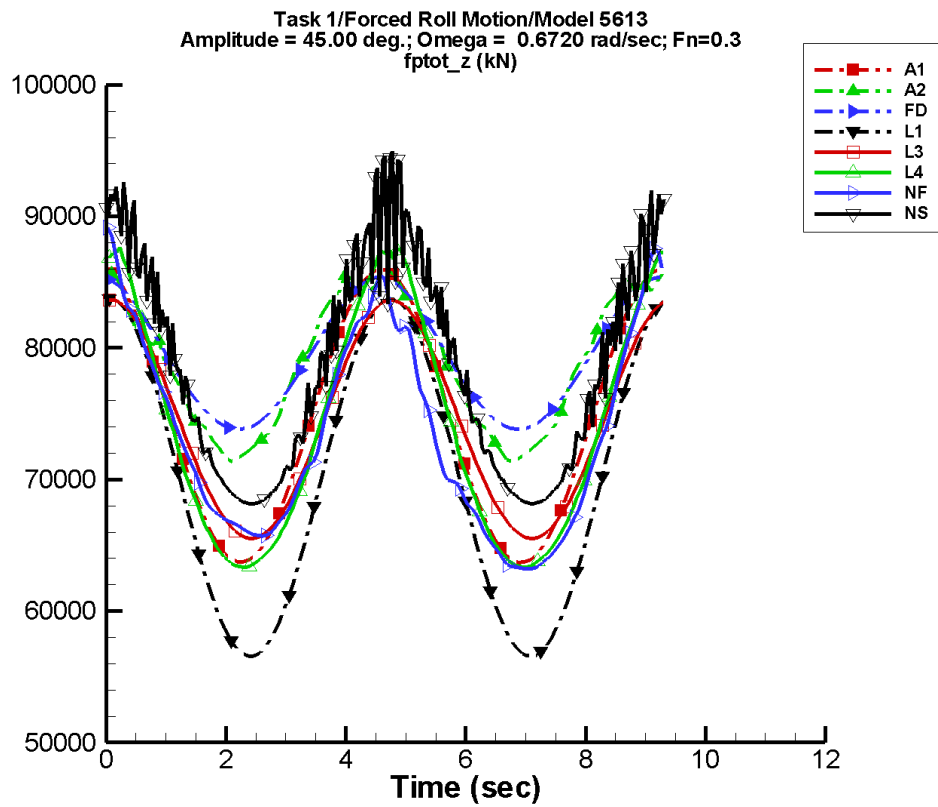


Figure C-119. Time history of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

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Table C–237. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.47E+04	2.14	122	1.11E+04	97
A2	7.89E+04	45.8	22	6.76E+03	107
FD	7.94E+04	9.75	160	5.74E+03	100
L1	7.00E+04	4.13	-11	1.36E+04	85
L3	7.43E+04	6.72	-11	9.01E+03	83
L4	7.41E+04	32.3	15	1.18E+04	91
NF	7.25E+04	291.	101	9.91E+03	90
NS	7.86E+04	22.2	177	1.12E+04	85

Table C–238. Minimum and maximum of F_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.37E+04	8.60E+04	6.42E+04	8.54E+04
A2	7.14E+04	8.59E+04	7.20E+04	8.51E+04
FD	7.38E+04	8.53E+04	7.41E+04	8.50E+04
L1	5.66E+04	8.37E+04	5.68E+04	8.37E+04
L3	6.55E+04	8.36E+04	6.57E+04	8.36E+04
L4	6.33E+04	8.77E+04	6.35E+04	8.72E+04
NF	6.32E+04	8.76E+04	6.33E+04	8.54E+04
NS	6.81E+04	9.51E+04	6.82E+04	9.12E+04

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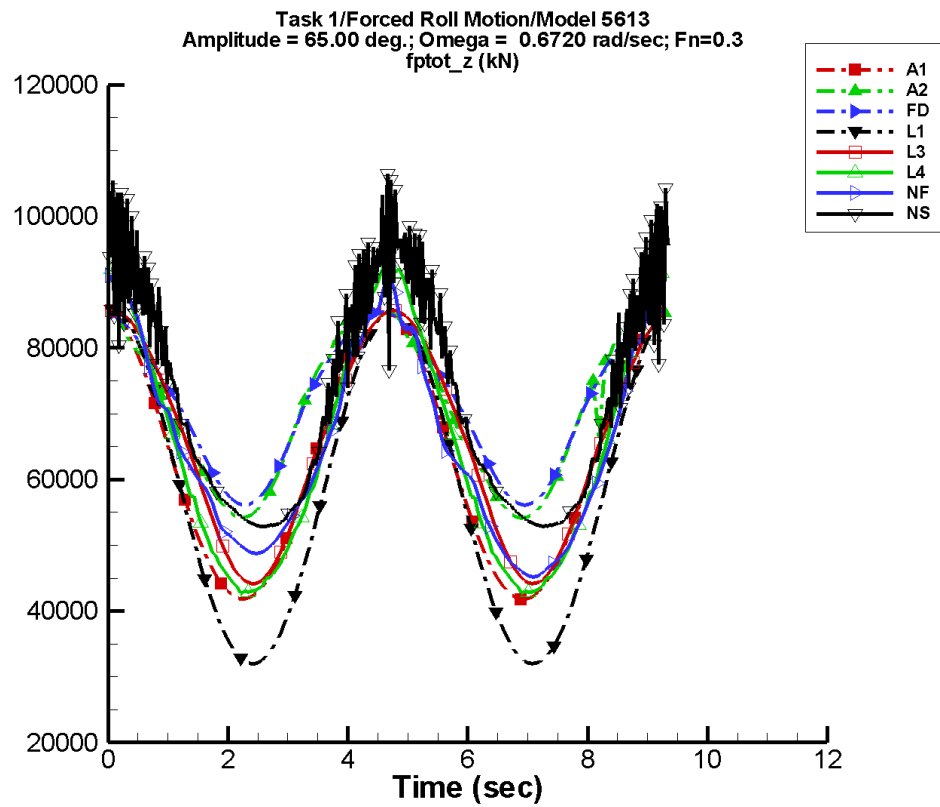


Figure C-120. Time history of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

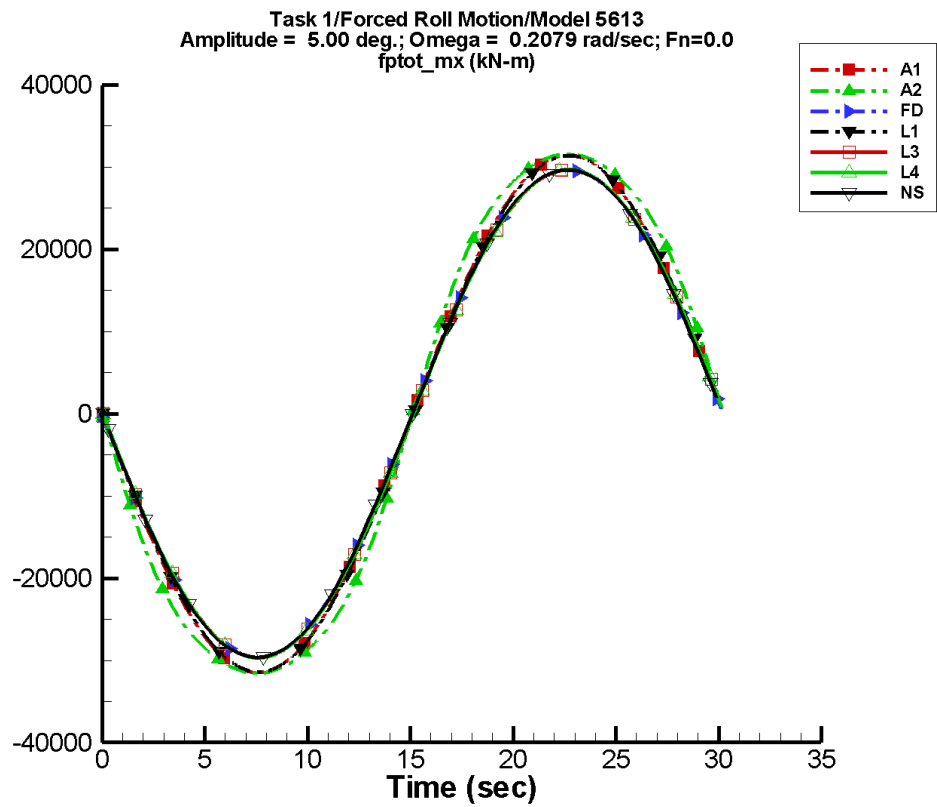
Table C–239. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.33E+04	18.2	-166	2.22E+04	97
A2	7.10E+04	305.	-27	1.54E+04	104
FD	7.19E+04	111.	-32	1.42E+04	97
L1	5.82E+04	19.1	-11	2.69E+04	85
L3	6.58E+04	40.1	165	2.03E+04	83
L4	6.51E+04	80.2	-33	2.37E+04	88
NF	6.45E+04	528.	-108	2.03E+04	83
NS	7.16E+04	29.8	178	2.15E+04	80

Table C–240. Minimum and maximum of F_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	4.18E+04	8.60E+04	4.27E+04	8.49E+04
A2	5.41E+04	8.62E+04	5.51E+04	8.54E+04
FD	5.61E+04	8.54E+04	5.71E+04	8.48E+04
L1	3.20E+04	8.58E+04	3.24E+04	8.58E+04
L3	4.42E+04	8.57E+04	4.46E+04	8.57E+04
L4	4.27E+04	9.30E+04	4.33E+04	9.19E+04
NF	4.52E+04	9.38E+04	4.56E+04	9.06E+04
NS	5.29E+04	1.07E+05	5.29E+04	9.67E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-121. Time history of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

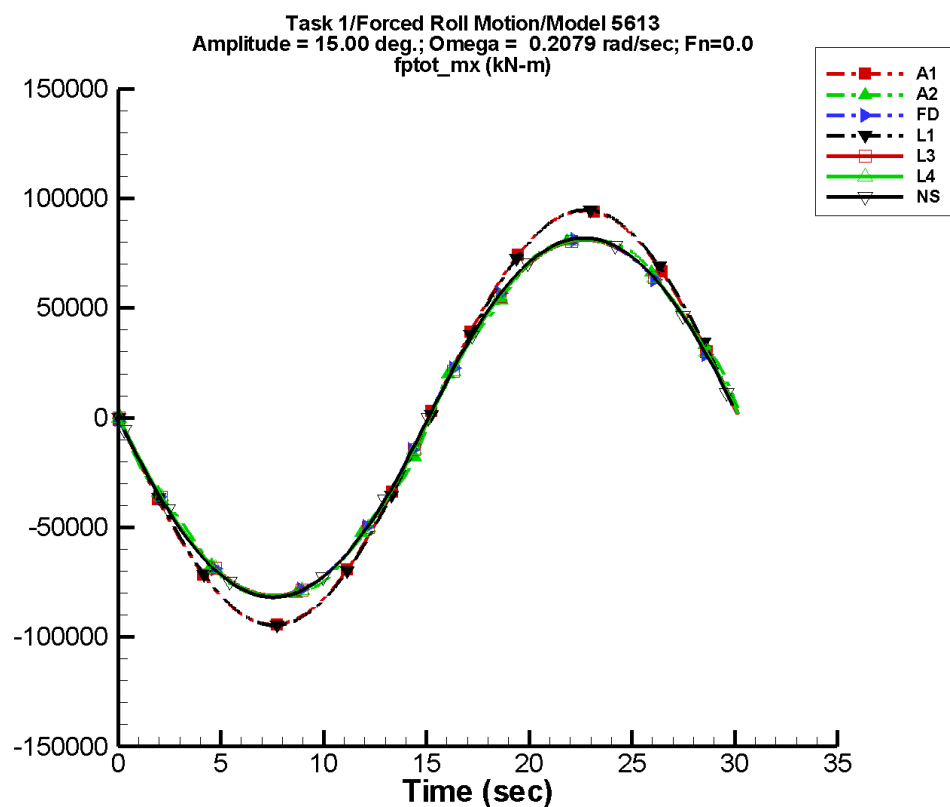
Table C–241. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-0.323	3.15E+04	180	0.170	10
A2	-58.7	3.33E+04	-180	342.	-118
FD	-7.78	2.99E+04	-180	36.9	-119
L1	0.310	3.14E+04	179	1.27	87
L3	-18.4	2.99E+04	179	71.3	-93
L4	-17.5	2.99E+04	179	65.6	-93
NF	—	—	—	—	—
NS	-1.54E-02	2.99E+04	-180	9.31E-03	-7

Table C–242. Minimum and maximum of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.15E+04	3.15E+04	-3.15E+04	3.14E+04
A2	-3.16E+04	3.16E+04	-3.16E+04	3.15E+04
FD	-2.97E+04	2.97E+04	-2.96E+04	2.96E+04
L1	-3.14E+04	3.14E+04	-3.14E+04	3.14E+04
L3	-2.96E+04	2.96E+04	-2.96E+04	2.96E+04
L4	-2.97E+04	2.97E+04	-2.97E+04	2.97E+04
NF	—	—	—	—
NS	-2.97E+04	2.97E+04	-2.94E+04	2.94E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-122. Time history of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

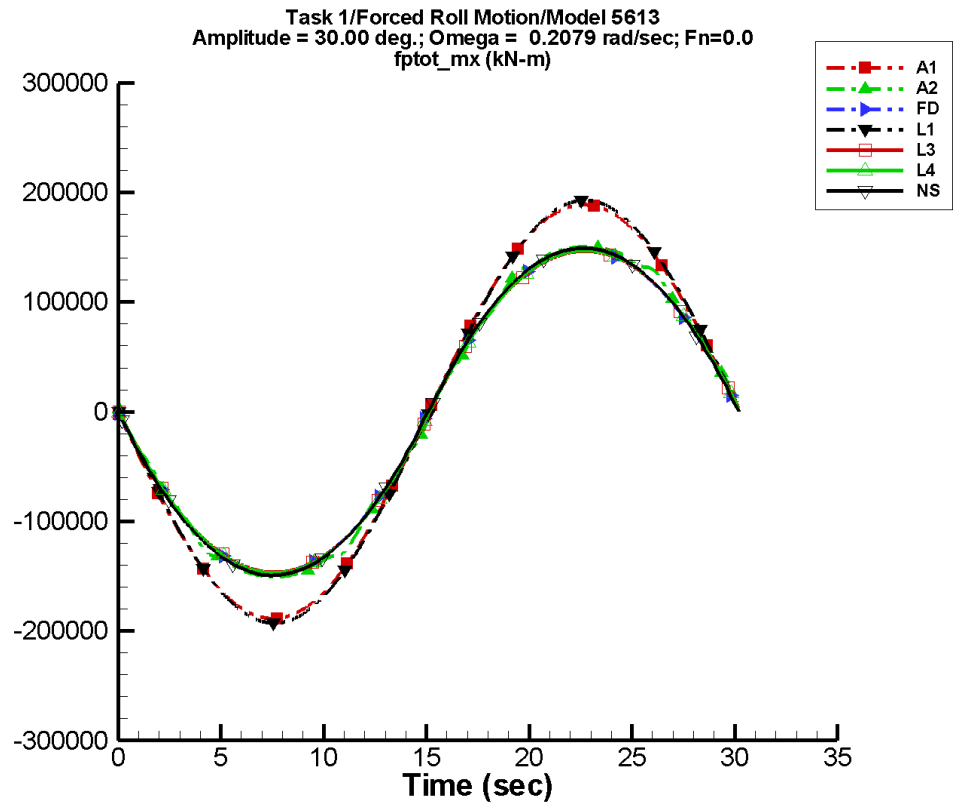
Table C–243. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-0.961	9.44E+04	180	0.523	8
A2	-119.	8.34E+04	179	387.	-105
FD	-65.6	8.28E+04	-180	304.	-117
L1	8.47	9.46E+04	179	34.2	87
L3	-125.	8.27E+04	179	485.	-94
L4	-121.	8.29E+04	179	456.	-92
NF	—	—	—	—	—
NS	-0.144	8.34E+04	-180	5.92E-02	43

Table C–244. Minimum and maximum of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.44E+04	9.44E+04	-9.44E+04	9.43E+04
A2	-8.13E+04	8.14E+04	-8.14E+04	8.13E+04
FD	-8.13E+04	8.13E+04	-8.12E+04	8.12E+04
L1	-9.47E+04	9.47E+04	-9.47E+04	9.47E+04
L3	-8.11E+04	8.11E+04	-8.11E+04	8.11E+04
L4	-8.14E+04	8.14E+04	-8.14E+04	8.14E+04
NF	—	—	—	—
NS	-8.19E+04	8.19E+04	-8.12E+04	8.12E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-123. Time history of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

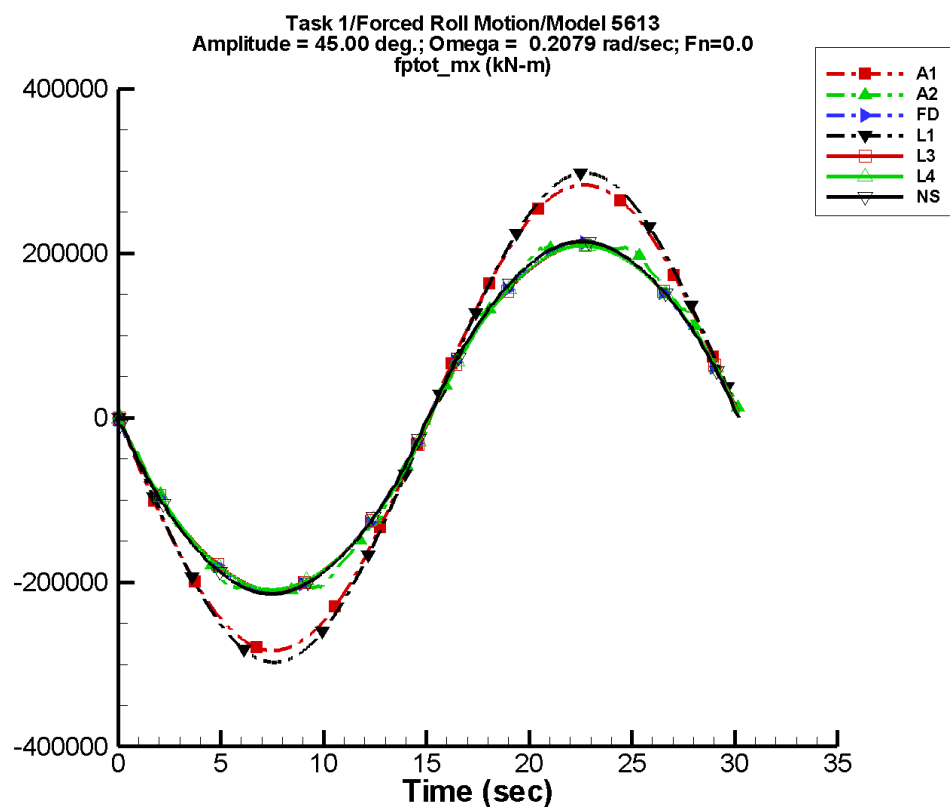
Table C–245. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.92	1.89E+05	180	1.06	8
A2	-179.	1.56E+05	179	854.	-122
FD	-194.	1.52E+05	-180	873.	-115
L1	68.1	1.92E+05	179	270.	87
L3	-358.	1.51E+05	179	1.38E+03	-94
L4	-349.	1.51E+05	179	1.32E+03	-93
NF	—	—	—	—	—
NS	-0.838	1.53E+05	-180	0.502	63

Table C–246. Minimum and maximum of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.89E+05	1.89E+05	-1.89E+05	1.89E+05
A2	-1.51E+05	1.51E+05	-1.50E+05	1.50E+05
FD	-1.47E+05	1.47E+05	-1.47E+05	1.47E+05
L1	-1.93E+05	1.93E+05	-1.93E+05	1.93E+05
L3	-1.47E+05	1.47E+05	-1.46E+05	1.46E+05
L4	-1.47E+05	1.47E+05	-1.47E+05	1.47E+05
NF	—	—	—	—
NS	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05

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Data identically zero, insufficient, or not available from NFA.

Figure C-124. Time history of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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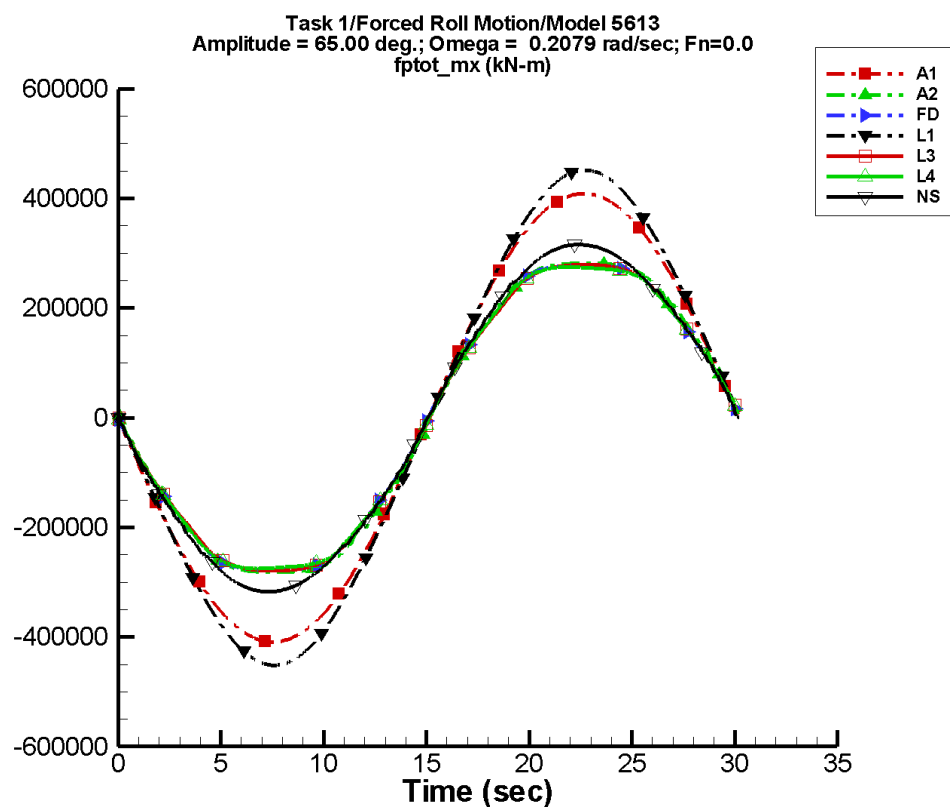
Table C–247. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.92	2.83E+05	180	1.49	10
A2	-282.	2.23E+05	179	1.42E+03	-122
FD	-277.	2.16E+05	-180	1.19E+03	-109
L1	226.	2.94E+05	179	893.	87
L3	-501.	2.14E+05	179	1.90E+03	-94
L4	-519.	2.14E+05	180	1.95E+03	-95
NF	—	—	—	—	—
NS	-2.88	2.19E+05	-180	0.713	71

Table C–248. Minimum and maximum of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.83E+05	2.83E+05	-2.83E+05	2.83E+05
A2	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
FD	-2.13E+05	2.13E+05	-2.12E+05	2.12E+05
L1	-2.97E+05	2.97E+05	-2.97E+05	2.97E+05
L3	-2.10E+05	2.10E+05	-2.10E+05	2.10E+05
L4	-2.09E+05	2.09E+05	-2.09E+05	2.09E+05
NF	—	—	—	—
NS	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-125. Time history of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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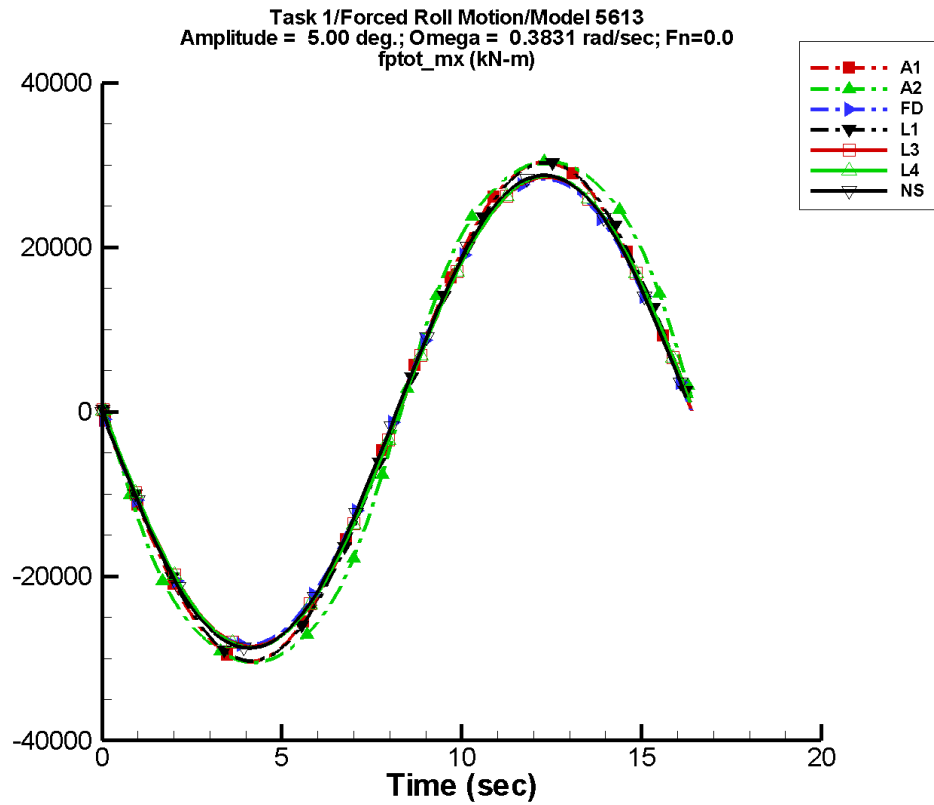
Table C–249. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.24	4.09E+05	180	2.18	10
A2	-581.	3.02E+05	179	2.50E+03	-122
FD	-498.	2.96E+05	-180	2.10E+03	-123
L1	655.	4.41E+05	179	2.58E+03	87
L3	-774.	2.95E+05	179	3.04E+03	-94
L4	-834.	2.94E+05	180	3.37E+03	-99
NF	—	—	—	—	—
NS	-314.	3.18E+05	-179	468.	93

Table C–250. Minimum and maximum of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.09E+05	4.09E+05	-4.09E+05	4.09E+05
A2	-2.82E+05	2.82E+05	-2.82E+05	2.82E+05
FD	-2.78E+05	2.78E+05	-2.78E+05	2.78E+05
L1	-4.52E+05	4.52E+05	-4.52E+05	4.52E+05
L3	-2.79E+05	2.79E+05	-2.79E+05	2.79E+05
L4	-2.76E+05	2.75E+05	-2.75E+05	2.75E+05
NF	—	—	—	—
NS	-3.18E+05	3.16E+05	-3.17E+05	3.15E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-126. Time history of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

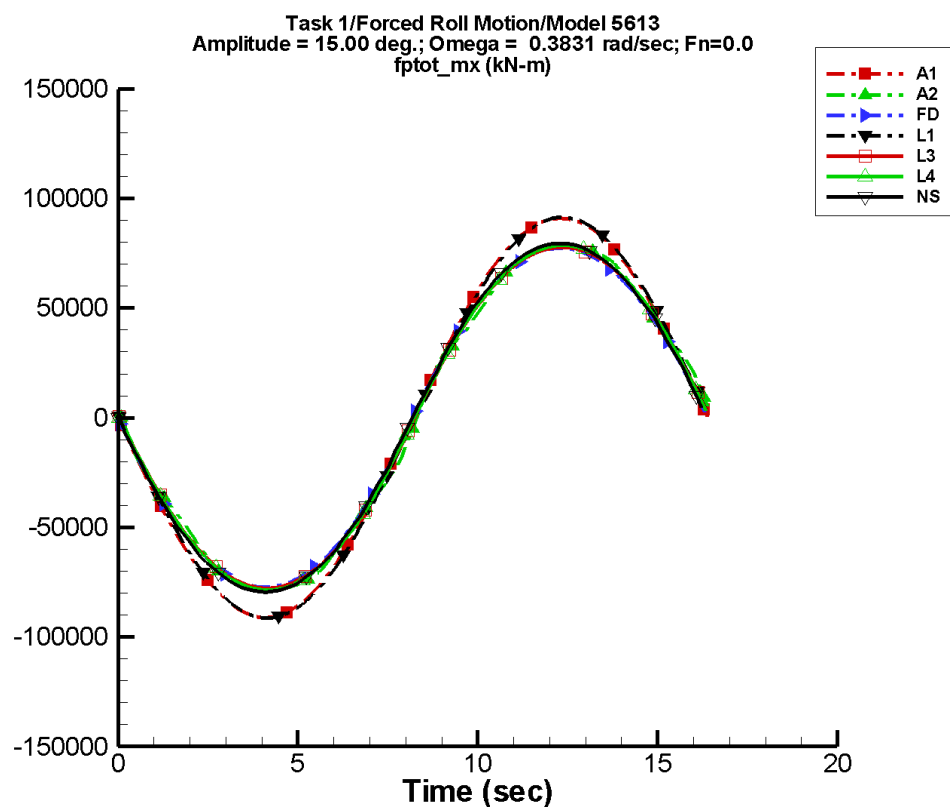
Table C–251. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.60	3.04E+04	-180	3.25	7
A2	-56.2	3.22E+04	178	342.	-122
FD	-7.40	2.86E+04	-180	48.9	-104
L1	0.332	3.03E+04	179	0.779	151
L3	-24.7	2.88E+04	179	43.3	-37
L4	-24.6	2.89E+04	179	36.0	-30
NF	—	—	—	—	—
NS	3.63E-02	2.90E+04	-180	0.130	160

Table C–252. Minimum and maximum of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.04E+04	3.03E+04	-3.05E+04	3.02E+04
A2	-3.05E+04	3.04E+04	-3.05E+04	3.03E+04
FD	-2.83E+04	2.83E+04	-2.82E+04	2.82E+04
L1	-3.03E+04	3.03E+04	-3.03E+04	3.03E+04
L3	-2.86E+04	2.86E+04	-2.85E+04	2.85E+04
L4	-2.87E+04	2.87E+04	-2.87E+04	2.87E+04
NF	—	—	—	—
NS	-2.88E+04	2.88E+04	-2.85E+04	2.85E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-127. Time history of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

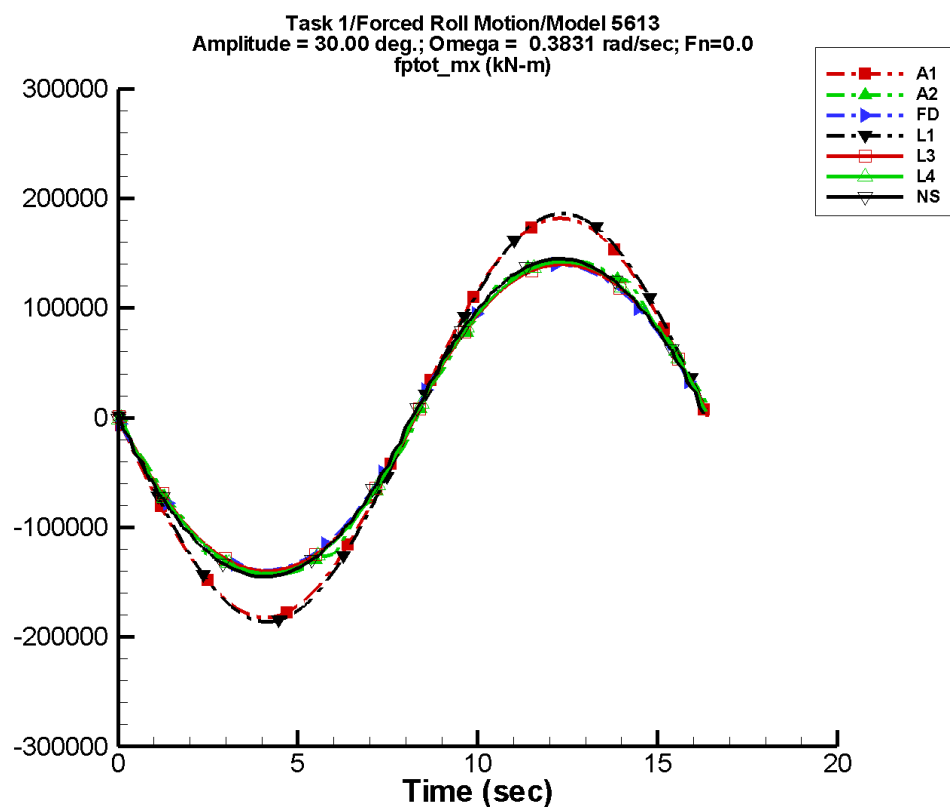
Table C–253. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.81	9.11E+04	-180	9.73	7
A2	-116.	8.01E+04	178	397.	-106
FD	-60.4	7.89E+04	-180	398.	-105
L1	11.6	9.13E+04	179	20.9	149
L3	-166.	7.93E+04	179	294.	-38
L4	-169.	8.01E+04	179	270.	-31
NF	—	—	—	—	—
NS	0.257	8.09E+04	-180	0.266	167

Table C–254. Minimum and maximum of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.12E+04	9.10E+04	-9.14E+04	9.06E+04
A2	-7.81E+04	7.79E+04	-7.83E+04	7.78E+04
FD	-7.73E+04	7.73E+04	-7.71E+04	7.71E+04
L1	-9.14E+04	9.14E+04	-9.13E+04	9.13E+04
L3	-7.78E+04	7.78E+04	-7.77E+04	7.77E+04
L4	-7.87E+04	7.87E+04	-7.86E+04	7.86E+04
NF	—	—	—	—
NS	-7.95E+04	7.95E+04	-7.89E+04	7.89E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-128. Time history of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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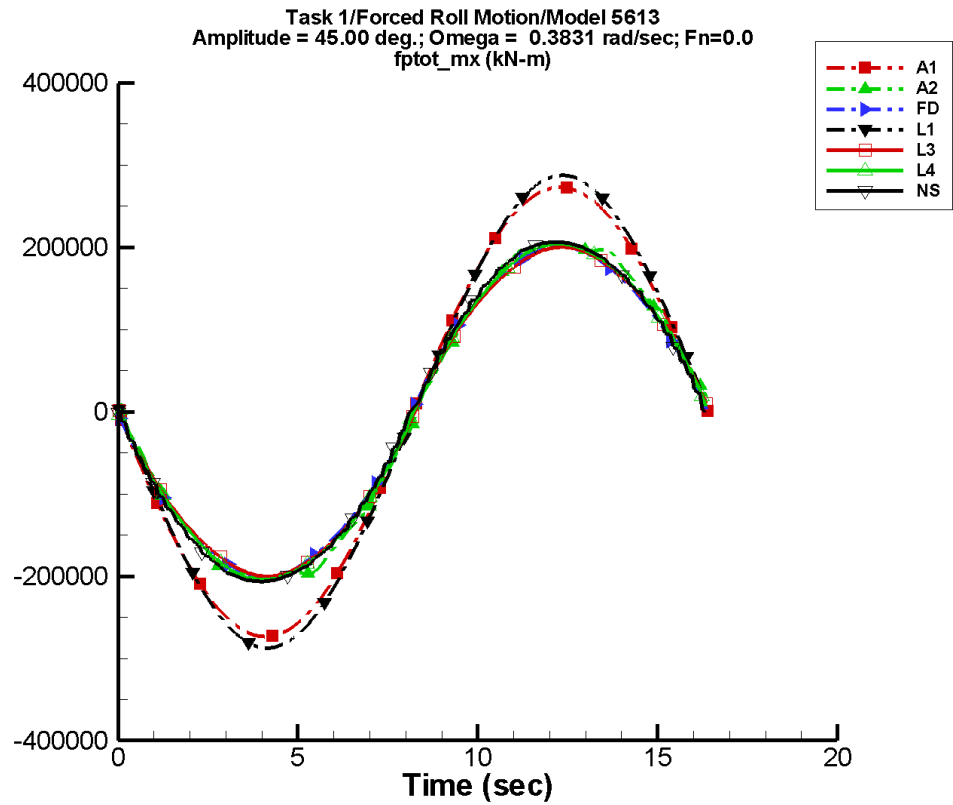
Table C–255. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-9.63	1.82E+05	-180	19.5	7
A2	-167.	1.50E+05	178	881.	-122
FD	-176.	1.44E+05	-180	1.13E+03	-105
L1	93.5	1.85E+05	179	165.	148
L3	-474.	1.44E+05	179	841.	-39
L4	-481.	1.46E+05	179	804.	-33
NF	—	—	—	—	—
NS	1.25	1.49E+05	-180	0.281	-115

Table C–256. Minimum and maximum of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.82E+05	1.82E+05	-1.83E+05	1.81E+05
A2	-1.44E+05	1.44E+05	-1.44E+05	1.43E+05
FD	-1.39E+05	1.39E+05	-1.39E+05	1.39E+05
L1	-1.86E+05	1.86E+05	-1.86E+05	1.86E+05
L3	-1.40E+05	1.40E+05	-1.40E+05	1.40E+05
L4	-1.42E+05	1.42E+05	-1.42E+05	1.42E+05
NF	—	—	—	—
NS	-1.45E+05	1.45E+05	-1.44E+05	1.44E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-129. Time history of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

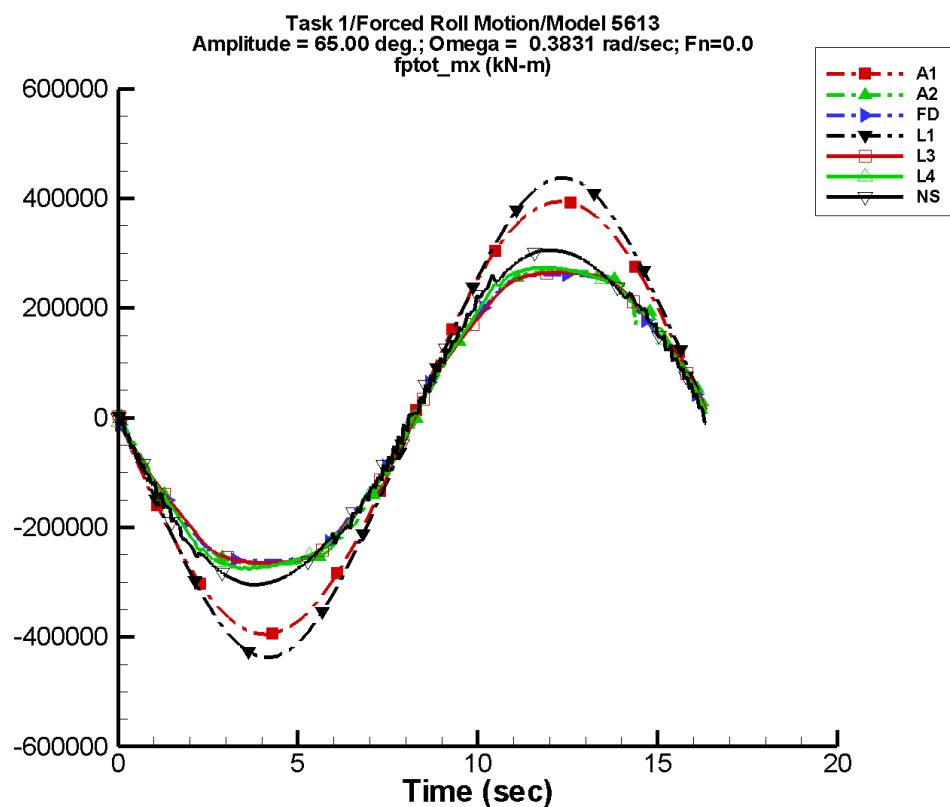
Table C–257. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-14.4	2.73E+05	-180	29.2	7
A2	-264.	2.13E+05	178	1.45E+03	-122
FD	-227.	2.04E+05	-180	1.45E+03	-106
L1	310.	2.84E+05	179	544.	148
L3	-633.	2.04E+05	179	1.16E+03	-45
L4	-667.	2.08E+05	180	1.15E+03	-43
NF	—	—	—	—	—
NS	4.86	2.12E+05	-179	7.68	-82

Table C–258. Minimum and maximum of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.73E+05	2.73E+05	-2.74E+05	2.72E+05
A2	-2.05E+05	2.04E+05	-2.04E+05	2.03E+05
FD	-2.01E+05	2.01E+05	-2.00E+05	2.00E+05
L1	-2.88E+05	2.88E+05	-2.87E+05	2.87E+05
L3	-2.00E+05	2.00E+05	-2.00E+05	2.00E+05
L4	-2.04E+05	2.05E+05	-2.04E+05	2.04E+05
NF	—	—	—	—
NS	-2.07E+05	2.07E+05	-2.06E+05	2.06E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-130. Time history of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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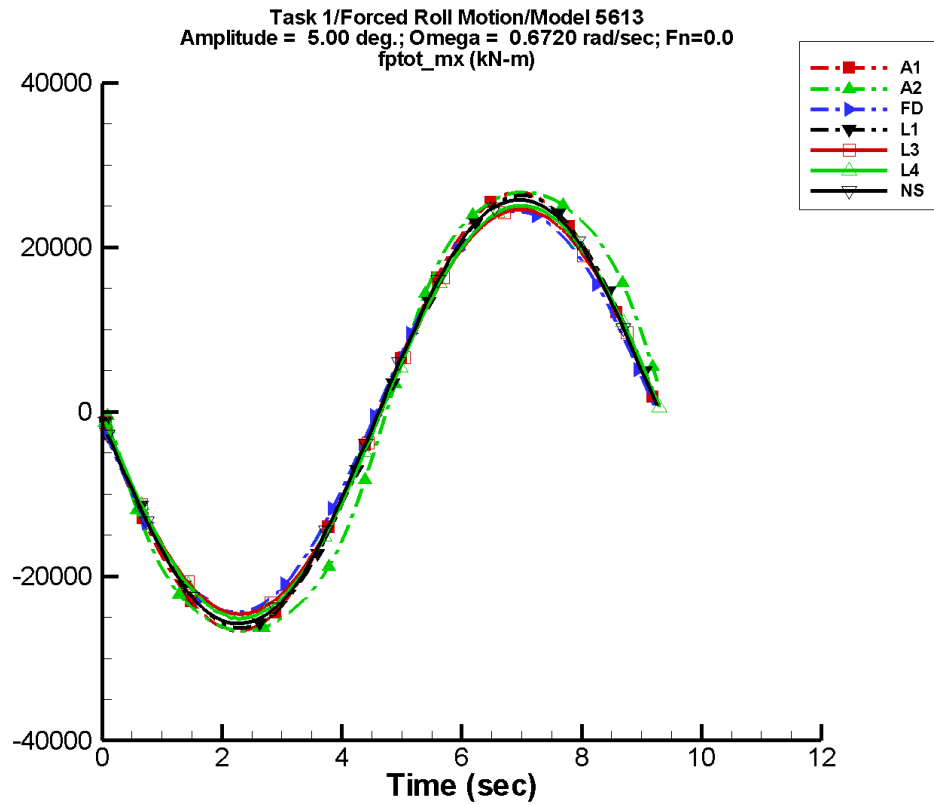
Table C–259. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-20.8	3.95E+05	-180	42.1	7
A2	-1.43E+03	2.86E+05	178	2.54E+03	-34
FD	-536.	2.79E+05	-180	2.89E+03	-100
L1	896.	4.28E+05	179	1.57E+03	148
L3	-1.19E+03	2.80E+05	179	1.96E+03	-32
L4	-1.29E+03	2.87E+05	-179	1.97E+03	-35
NF	—	—	—	—	—
NS	206.	3.07E+05	-178	251.	-75

Table C–260. Minimum and maximum of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.95E+05	3.94E+05	-3.96E+05	3.93E+05
A2	-2.67E+05	2.68E+05	-2.67E+05	2.68E+05
FD	-2.61E+05	2.61E+05	-2.61E+05	2.61E+05
L1	-4.37E+05	4.37E+05	-4.37E+05	4.37E+05
L3	-2.65E+05	2.65E+05	-2.65E+05	2.65E+05
L4	-2.76E+05	2.74E+05	-2.75E+05	2.74E+05
NF	—	—	—	—
NS	-3.05E+05	3.06E+05	-3.05E+05	3.06E+05

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Data identically zero, insufficient, or not available from NFA.

Figure C-131. Time history of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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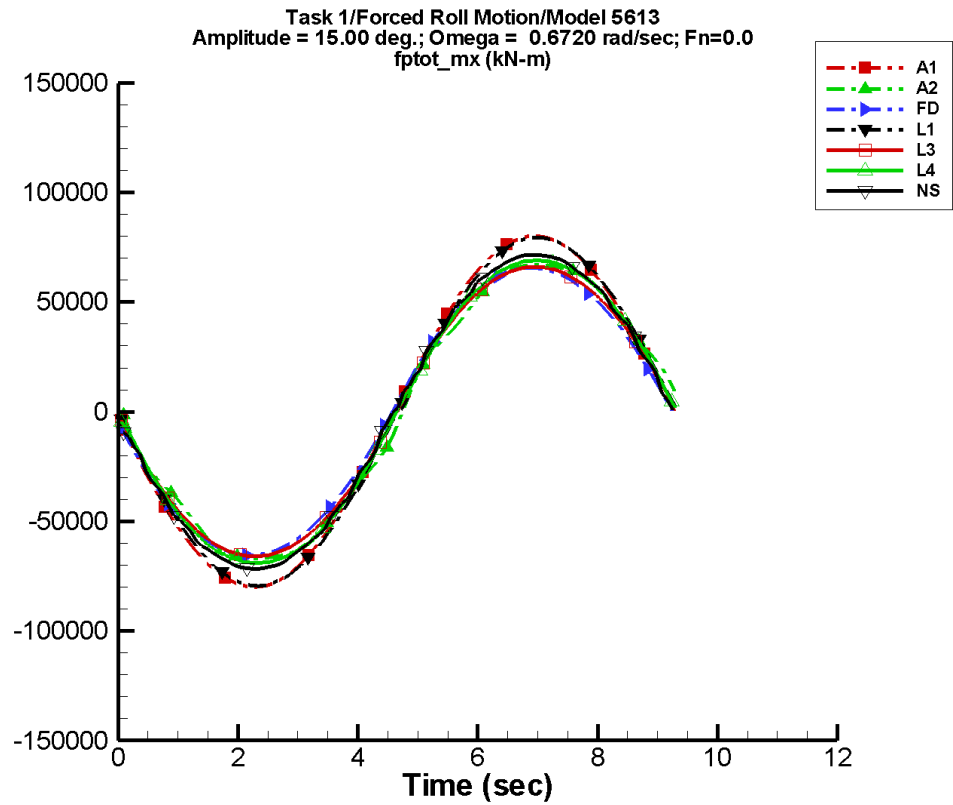
Table C–261. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.47	2.67E+04	-178	9.20	-94
A2	-111.	2.86E+04	178	258.	-142
FD	-18.4	2.46E+04	-176	34.9	-38
L1	-0.423	2.63E+04	-179	1.22	61
L3	-2.24	2.48E+04	-179	61.3	-122
L4	-5.26	2.53E+04	-179	51.7	-151
NF	—	—	—	—	—
NS	-0.927	2.60E+04	-178	1.26	151

Table C–262. Minimum and maximum of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.67E+04	2.67E+04	-2.64E+04	2.64E+04
A2	-2.67E+04	2.67E+04	-2.65E+04	2.65E+04
FD	-2.44E+04	2.44E+04	-2.41E+04	2.41E+04
L1	-2.63E+04	2.63E+04	-2.62E+04	2.62E+04
L3	-2.46E+04	2.46E+04	-2.45E+04	2.45E+04
L4	-2.53E+04	2.51E+04	-2.50E+04	2.50E+04
NF	—	—	—	—
NS	-2.58E+04	2.58E+04	-2.55E+04	2.55E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-132. Time history of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

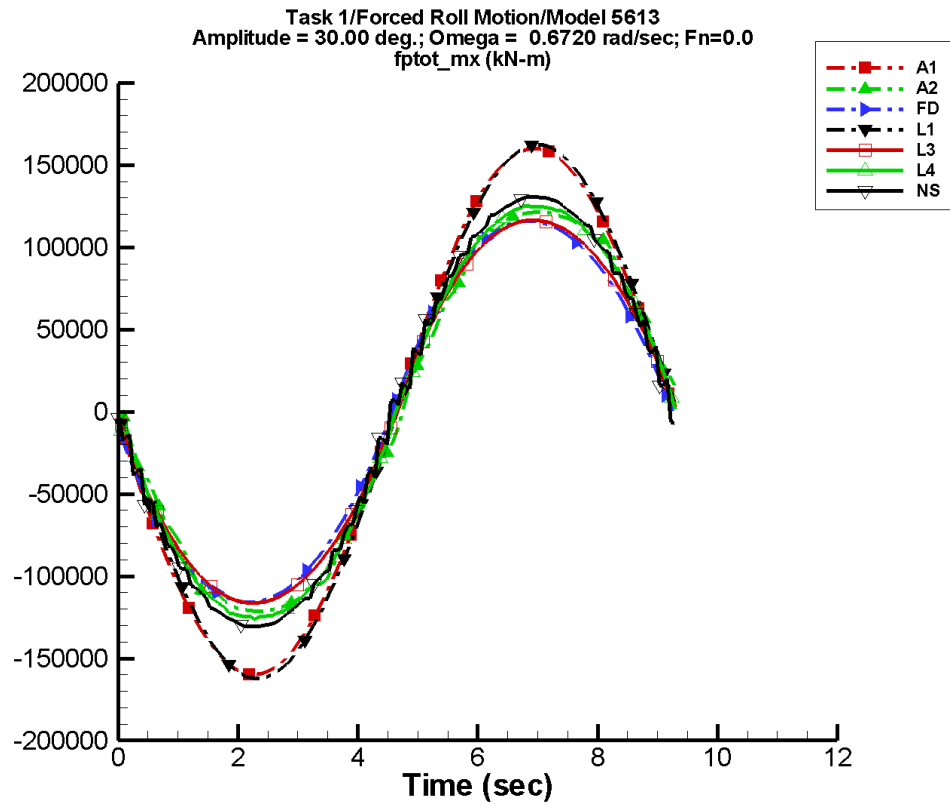
Table C–263. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.41	8.00E+04	-178	27.6	-94
A2	-157.	6.89E+04	178	326.	-114
FD	-150.	6.70E+04	-176	285.	-40
L1	-1.52	7.93E+04	-179	30.4	56
L3	-16.5	6.75E+04	-178	414.	-122
L4	11.1	7.06E+04	-179	370.	-135
NF	—	—	—	—	—
NS	-1.73	7.27E+04	-178	4.82	128

Table C–264. Minimum and maximum of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.00E+04	8.00E+04	-7.91E+04	7.91E+04
A2	-6.67E+04	6.68E+04	-6.64E+04	6.65E+04
FD	-6.55E+04	6.55E+04	-6.49E+04	6.49E+04
L1	-7.95E+04	7.95E+04	-7.91E+04	7.91E+04
L3	-6.60E+04	6.60E+04	-6.58E+04	6.58E+04
L4	-6.90E+04	6.90E+04	-6.87E+04	6.87E+04
NF	—	—	—	—
NS	-7.16E+04	7.16E+04	-7.10E+04	7.10E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-133. Time history of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

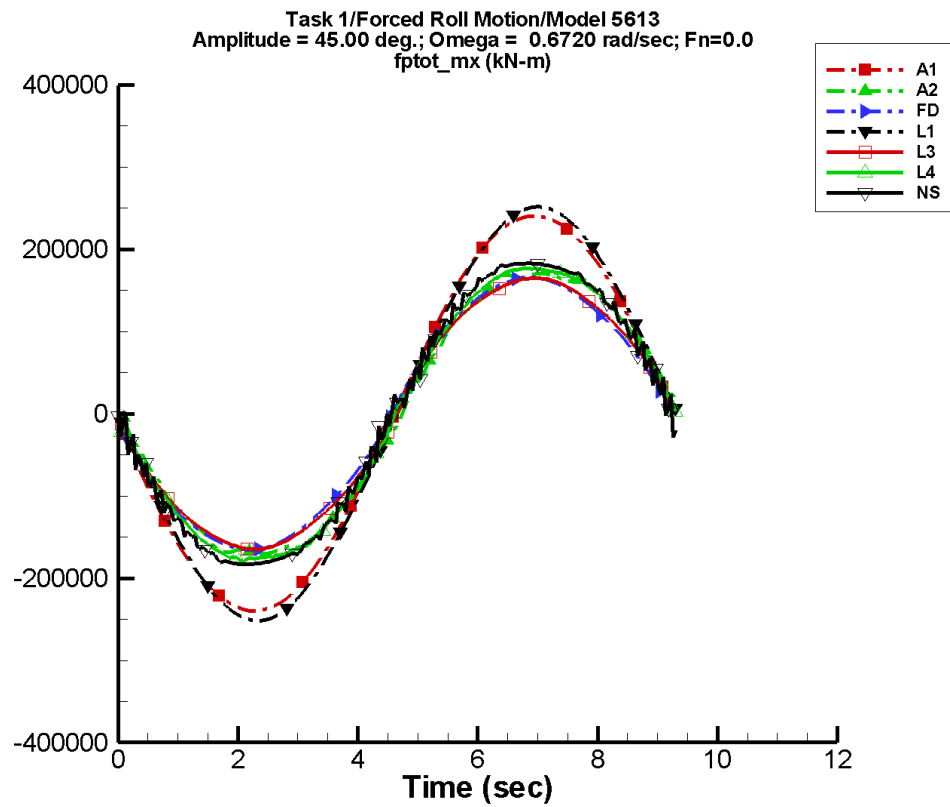
Table C–265. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-8.81	1.60E+05	-178	55.2	-94
A2	-330.	1.27E+05	178	648.	-146
FD	-427.	1.20E+05	-175	814.	-42
L1	-4.10	1.61E+05	-180	239.	55
L3	-56.3	1.20E+05	-178	1.18E+03	-121
L4	-107.	1.30E+05	-179	1.05E+03	-124
NF	—	—	—	—	—
NS	0.501	1.34E+05	-178	7.84	123

Table C–266. Minimum and maximum of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.60E+05	1.60E+05	-1.58E+05	1.58E+05
A2	-1.21E+05	1.21E+05	-1.20E+05	1.20E+05
FD	-1.16E+05	1.16E+05	-1.15E+05	1.15E+05
L1	-1.62E+05	1.62E+05	-1.62E+05	1.62E+05
L3	-1.16E+05	1.16E+05	-1.16E+05	1.16E+05
L4	-1.26E+05	1.25E+05	-1.25E+05	1.25E+05
NF	—	—	—	—
NS	-1.31E+05	1.31E+05	-1.30E+05	1.30E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-134. Time history of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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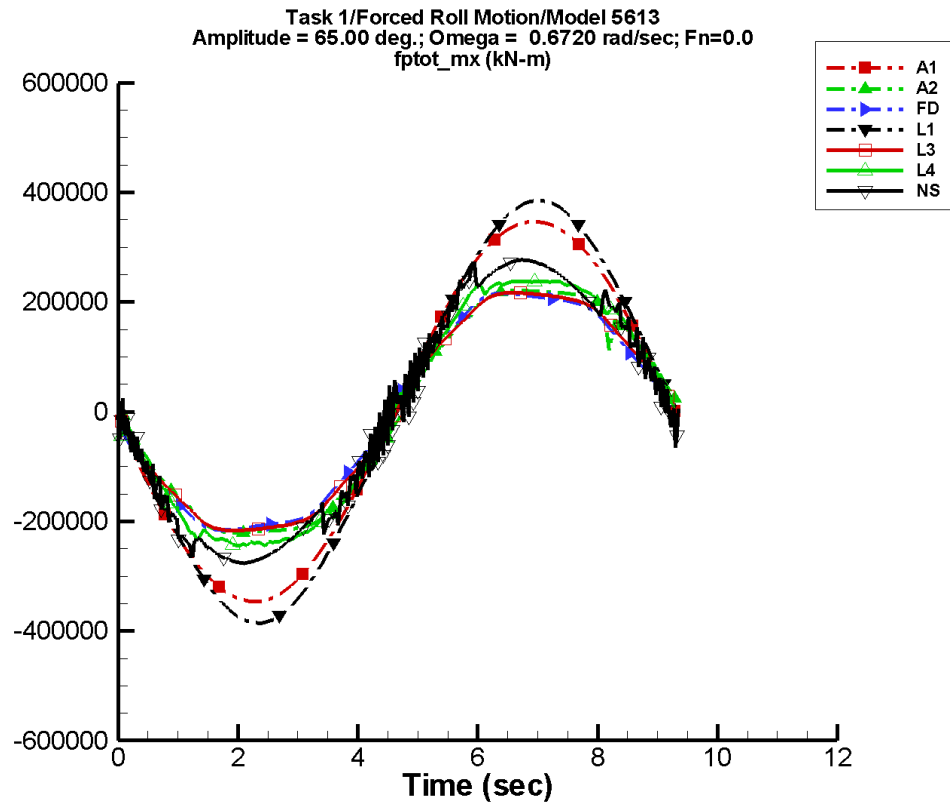
Table C–267. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-13.2	2.40E+05	-178	82.8	-94
A2	-559.	1.80E+05	179	1.07E+03	-151
FD	-537.	1.69E+05	-175	1.08E+03	-49
L1	-8.26	2.48E+05	-180	787.	55
L3	-140.	1.69E+05	-178	1.57E+03	-118
L4	-235.	1.84E+05	-179	1.60E+03	-123
NF	—	—	—	—	—
NS	7.09	1.91E+05	-177	19.9	-141

Table C–268. Minimum and maximum of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.40E+05	2.40E+05	-2.37E+05	2.37E+05
A2	-1.70E+05	1.71E+05	-1.68E+05	1.68E+05
FD	-1.66E+05	1.66E+05	-1.64E+05	1.64E+05
L1	-2.52E+05	2.52E+05	-2.51E+05	2.51E+05
L3	-1.65E+05	1.65E+05	-1.64E+05	1.64E+05
L4	-1.80E+05	1.77E+05	-1.77E+05	1.76E+05
NF	—	—	—	—
NS	-1.83E+05	1.83E+05	-1.83E+05	1.83E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-135. Time history of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

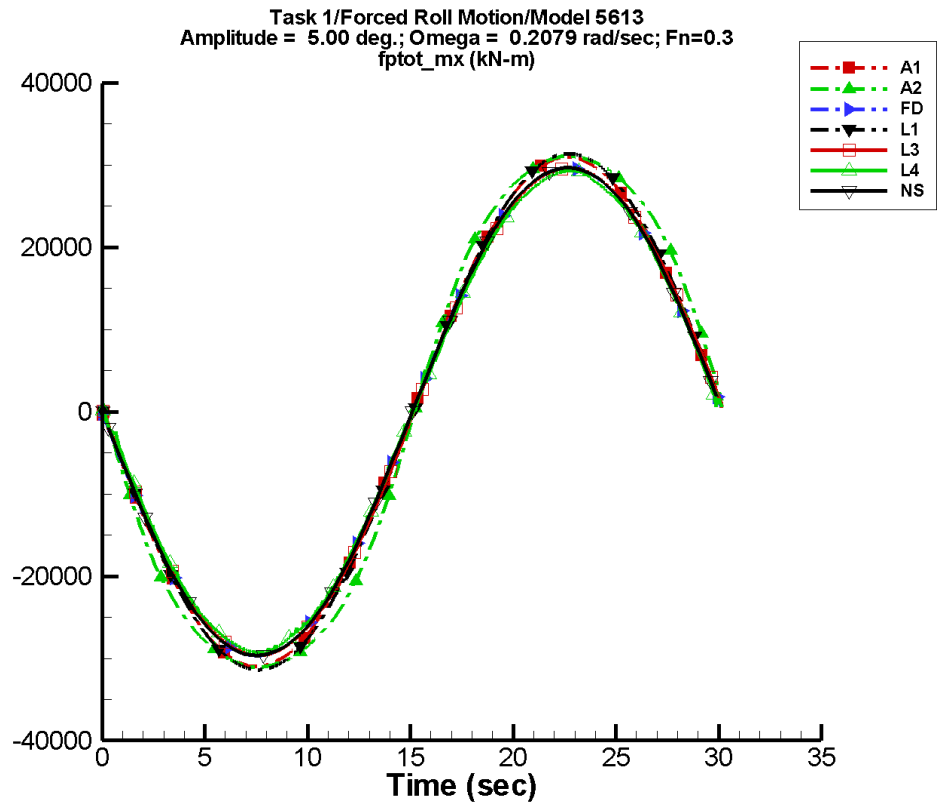
Table C–269. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-19.1	3.47E+05	-178	120.	-94
A2	-1.79E+03	2.39E+05	179	903.	-113
FD	-1.22E+03	2.27E+05	-174	2.10E+03	-31
L1	-15.1	3.76E+05	-180	2.27E+03	55
L3	-75.5	2.29E+05	-177	2.82E+03	-122
L4	-324.	2.58E+05	-178	3.19E+03	-133
NF	—	—	—	—	—
NS	194.	2.78E+05	-176	206.	-50

Table C–270. Minimum and maximum of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.46E+05	3.47E+05	-3.43E+05	3.43E+05
A2	-2.21E+05	2.21E+05	-2.20E+05	2.20E+05
FD	-2.16E+05	2.16E+05	-2.14E+05	2.14E+05
L1	-3.86E+05	3.86E+05	-3.84E+05	3.84E+05
L3	-2.17E+05	2.17E+05	-2.17E+05	2.17E+05
L4	-2.45E+05	2.38E+05	-2.41E+05	2.38E+05
NF	—	—	—	—
NS	-2.77E+05	2.78E+05	-2.76E+05	2.77E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-136. Time history of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

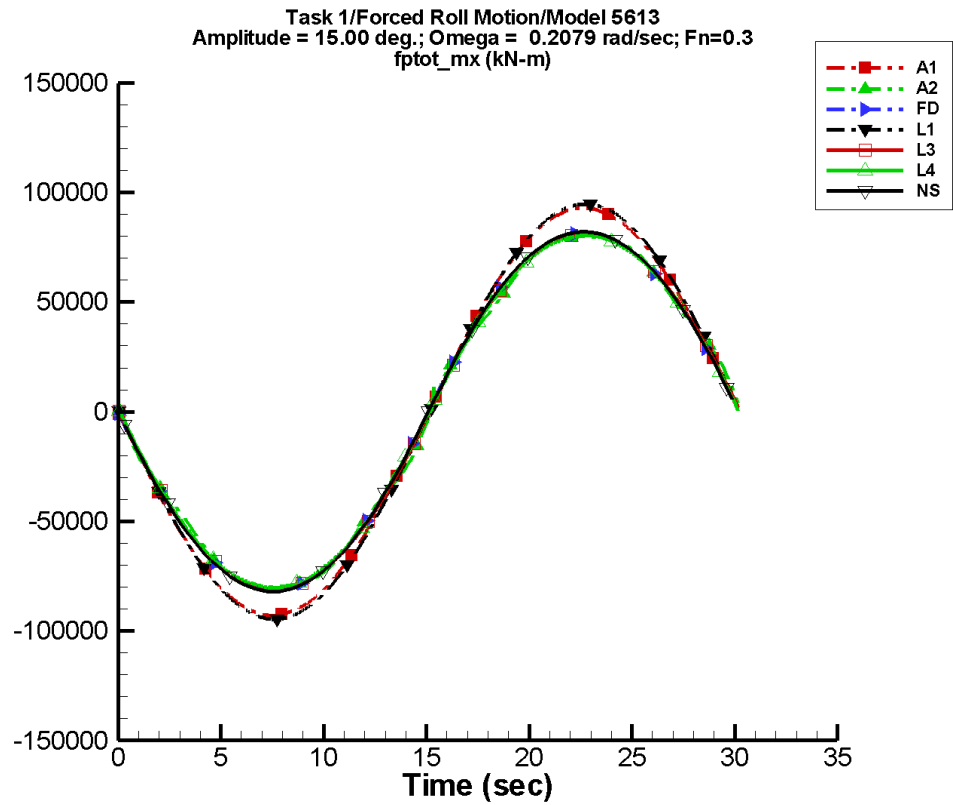
Table C–271. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-0.381	3.10E+04	-180	0.893	38
A2	-60.8	3.28E+04	179	332.	-121
FD	-7.78	2.99E+04	-180	36.9	-119
L1	0.296	3.14E+04	179	1.28	87
L3	-18.4	2.99E+04	179	71.3	-93
L4	32.6	2.92E+04	180	40.8	74
NF	—	—	—	—	—
NS	5.96E-02	2.99E+04	-180	0.102	-30

Table C–272. Minimum and maximum of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.10E+04	3.10E+04	-3.10E+04	3.10E+04
A2	-3.11E+04	3.11E+04	-3.11E+04	3.11E+04
FD	-2.97E+04	2.97E+04	-2.96E+04	2.96E+04
L1	-3.14E+04	3.14E+04	-3.14E+04	3.14E+04
L3	-2.96E+04	2.96E+04	-2.96E+04	2.96E+04
L4	-2.93E+04	2.93E+04	-2.93E+04	2.93E+04
NF	—	—	—	—
NS	-2.97E+04	2.97E+04	-2.94E+04	2.94E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-137. Time history of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

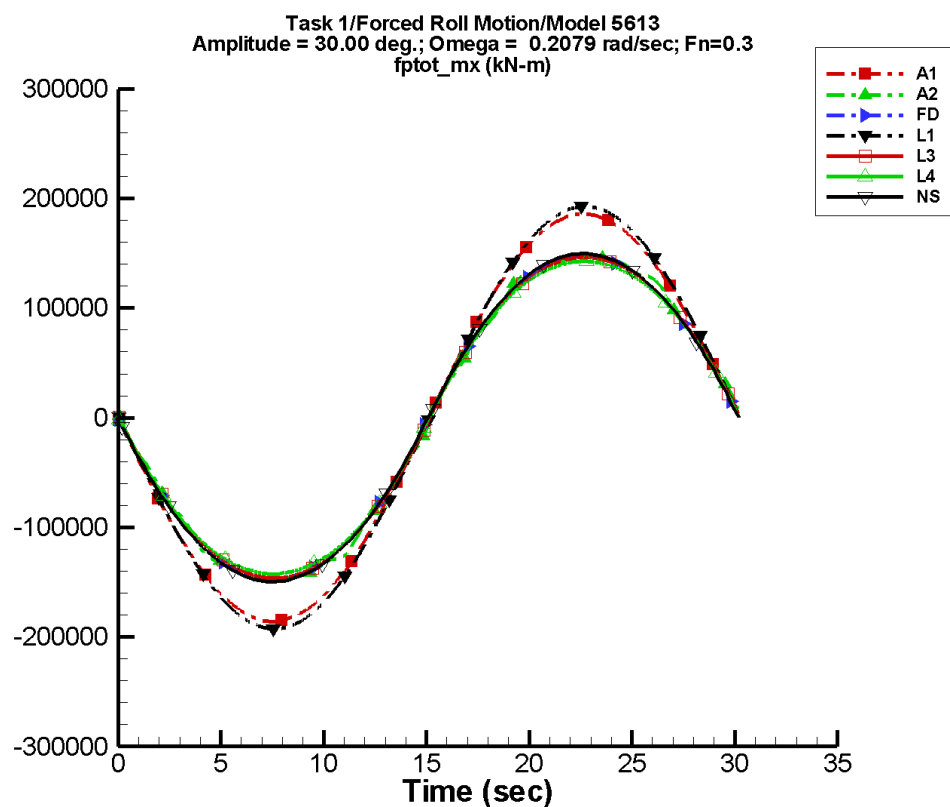
Table C–273. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.15	9.29E+04	-180	2.68	38
A2	-120.	8.19E+04	179	385.	-105
FD	-65.6	8.28E+04	-180	304.	-117
L1	8.46	9.45E+04	179	34.2	87
L3	-125.	8.27E+04	179	485.	-94
L4	-18.5	8.17E+04	180	331.	-100
NF	—	—	—	—	—
NS	0.356	8.35E+04	-180	0.805	-21

Table C–274. Minimum and maximum of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.30E+04	9.30E+04	-9.30E+04	9.29E+04
A2	-7.99E+04	8.00E+04	-8.00E+04	7.99E+04
FD	-8.13E+04	8.13E+04	-8.12E+04	8.12E+04
L1	-9.47E+04	9.47E+04	-9.46E+04	9.46E+04
L3	-8.10E+04	8.10E+04	-8.10E+04	8.10E+04
L4	-8.05E+04	8.05E+04	-8.04E+04	8.04E+04
NF	—	—	—	—
NS	-8.20E+04	8.20E+04	-8.13E+04	8.13E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-138. Time history of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

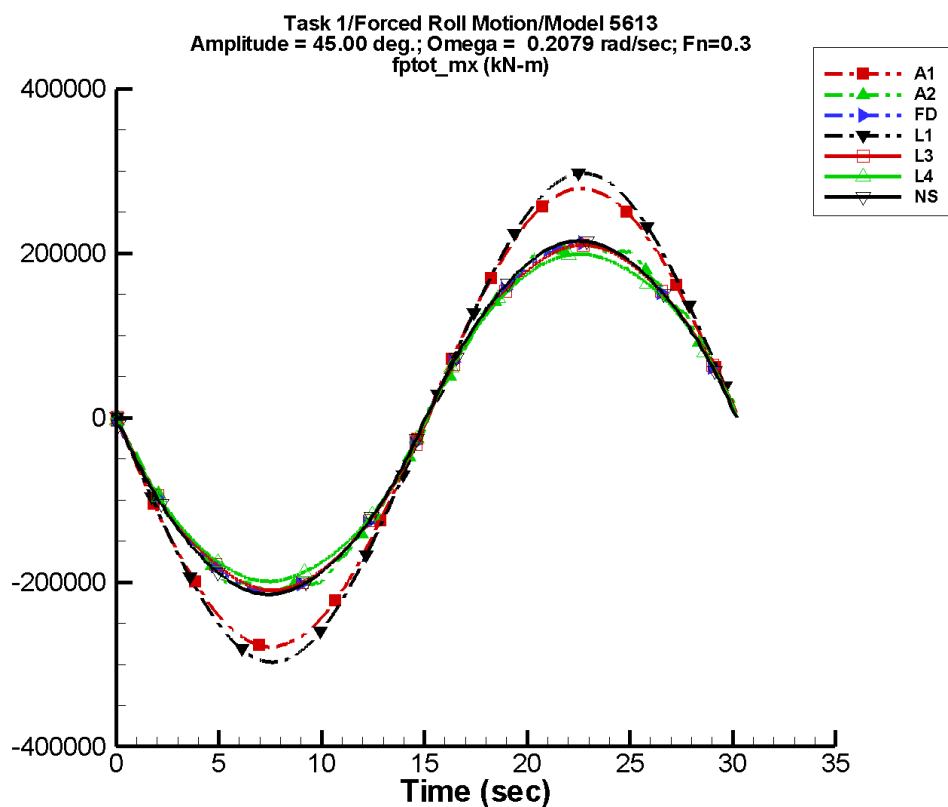
Table C–275. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.30	1.86E+05	-180	5.35	38
A2	-179.	1.53E+05	179	850.	-122
FD	-194.	1.52E+05	-180	873.	-115
L1	68.0	1.92E+05	179	270.	87
L3	-358.	1.51E+05	179	1.38E+03	-94
L4	-234.	1.48E+05	180	1.42E+03	-95
NF	—	—	—	—	—
NS	0.471	1.54E+05	-180	2.37	-14

Table C–276. Minimum and maximum of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.86E+05	1.86E+05	-1.86E+05	1.86E+05
A2	-1.48E+05	1.48E+05	-1.48E+05	1.48E+05
FD	-1.47E+05	1.47E+05	-1.47E+05	1.47E+05
L1	-1.93E+05	1.93E+05	-1.93E+05	1.93E+05
L3	-1.46E+05	1.46E+05	-1.46E+05	1.46E+05
L4	-1.43E+05	1.44E+05	-1.43E+05	1.43E+05
NF	—	—	—	—
NS	-1.50E+05	1.50E+05	-1.49E+05	1.49E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-139. Time history of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

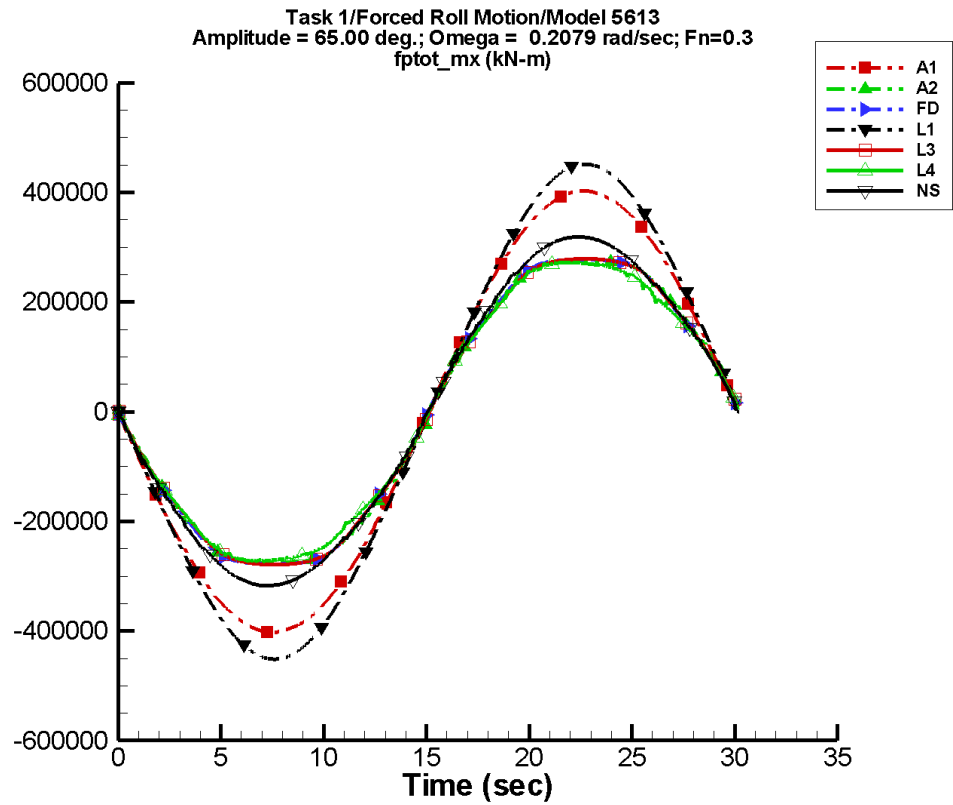
Table C–277. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.48	2.79E+05	-180	8.07	38
A2	-282.	2.18E+05	179	1.41E+03	-122
FD	-277.	2.16E+05	-180	1.19E+03	-109
L1	226.	2.94E+05	179	893.	87
L3	-501.	2.14E+05	179	1.90E+03	-94
L4	-426.	2.06E+05	180	2.33E+03	-99
NF	—	—	—	—	—
NS	1.79E-02	2.19E+05	-180	4.45	-3

Table C–278. Minimum and maximum of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.79E+05	2.79E+05	-2.79E+05	2.79E+05
A2	-2.10E+05	2.10E+05	-2.10E+05	2.10E+05
FD	-2.13E+05	2.13E+05	-2.12E+05	2.12E+05
L1	-2.97E+05	2.97E+05	-2.97E+05	2.97E+05
L3	-2.10E+05	2.10E+05	-2.10E+05	2.10E+05
L4	-1.99E+05	1.99E+05	-1.99E+05	1.99E+05
NF	—	—	—	—
NS	-2.15E+05	2.15E+05	-2.15E+05	2.14E+05

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Data identically zero, insufficient, or not available from NFA.

Figure C-140. Time history of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

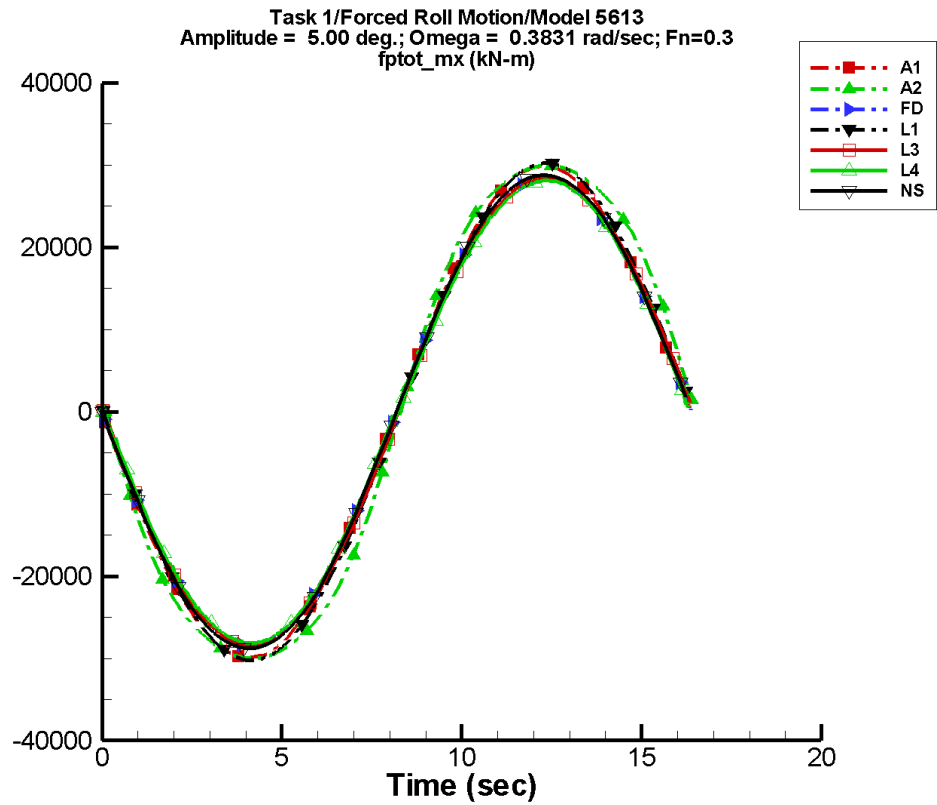
Table C–279. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-5.02	4.03E+05	-180	11.6	38
A2	-581.	2.95E+05	179	2.49E+03	-122
FD	-498.	2.96E+05	-180	2.10E+03	-123
L1	655.	4.41E+05	179	2.58E+03	87
L3	-774.	2.95E+05	179	3.04E+03	-94
L4	-477.	2.85E+05	-179	2.67E+03	-108
NF	—	—	—	—	—
NS	165.	3.19E+05	-179	301.	-80

Table C–280. Minimum and maximum of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.03E+05	4.03E+05	-4.03E+05	4.03E+05
A2	-2.76E+05	2.76E+05	-2.76E+05	2.76E+05
FD	-2.78E+05	2.78E+05	-2.78E+05	2.78E+05
L1	-4.51E+05	4.51E+05	-4.51E+05	4.51E+05
L3	-2.79E+05	2.79E+05	-2.79E+05	2.79E+05
L4	-2.73E+05	2.72E+05	-2.72E+05	2.72E+05
NF	—	—	—	—
NS	-3.17E+05	3.19E+05	-3.17E+05	3.19E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-141. Time history of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

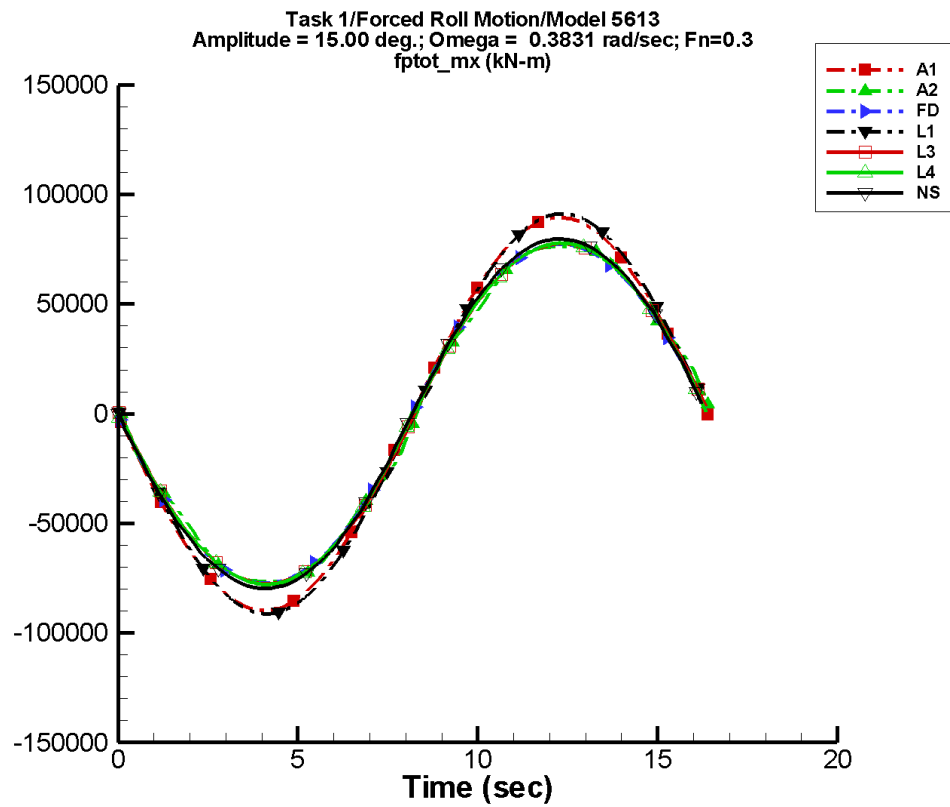
Table C–281. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.28	2.99E+04	-180	6.62	68
A2	-55.8	3.17E+04	178	338.	-123
FD	-7.40	2.86E+04	-180	48.9	-104
L1	0.356	3.02E+04	179	0.731	152
L3	-24.6	2.87E+04	179	43.4	-37
L4	5.84	2.82E+04	180	24.2	85
NF	—	—	—	—	—
NS	0.367	2.90E+04	-180	0.245	-136

Table C–282. Minimum and maximum of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.99E+04	2.98E+04	-3.00E+04	2.97E+04
A2	-3.00E+04	2.99E+04	-3.01E+04	2.99E+04
FD	-2.83E+04	2.83E+04	-2.82E+04	2.82E+04
L1	-3.02E+04	3.02E+04	-3.02E+04	3.02E+04
L3	-2.85E+04	2.85E+04	-2.84E+04	2.84E+04
L4	-2.81E+04	2.81E+04	-2.81E+04	2.81E+04
NF	—	—	—	—
NS	-2.88E+04	2.88E+04	-2.85E+04	2.85E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-142. Time history of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–283. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.84	8.97E+04	-180	19.8	68
A2	-115.	7.87E+04	178	381.	-107
FD	-60.4	7.89E+04	-180	398.	-105
L1	11.6	9.11E+04	179	20.7	149
L3	-166.	7.91E+04	179	294.	-38
L4	-128.	7.89E+04	180	232.	-31
NF	—	—	—	—	—
NS	3.03	8.10E+04	-180	1.72	-112

Table C–284. Minimum and maximum of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.97E+04	8.95E+04	-9.00E+04	8.92E+04
A2	-7.67E+04	7.64E+04	-7.69E+04	7.63E+04
FD	-7.73E+04	7.73E+04	-7.71E+04	7.71E+04
L1	-9.12E+04	9.12E+04	-9.11E+04	9.11E+04
L3	-7.76E+04	7.76E+04	-7.75E+04	7.75E+04
L4	-7.79E+04	7.78E+04	-7.77E+04	7.77E+04
NF	—	—	—	—
NS	-7.97E+04	7.97E+04	-7.90E+04	7.90E+04

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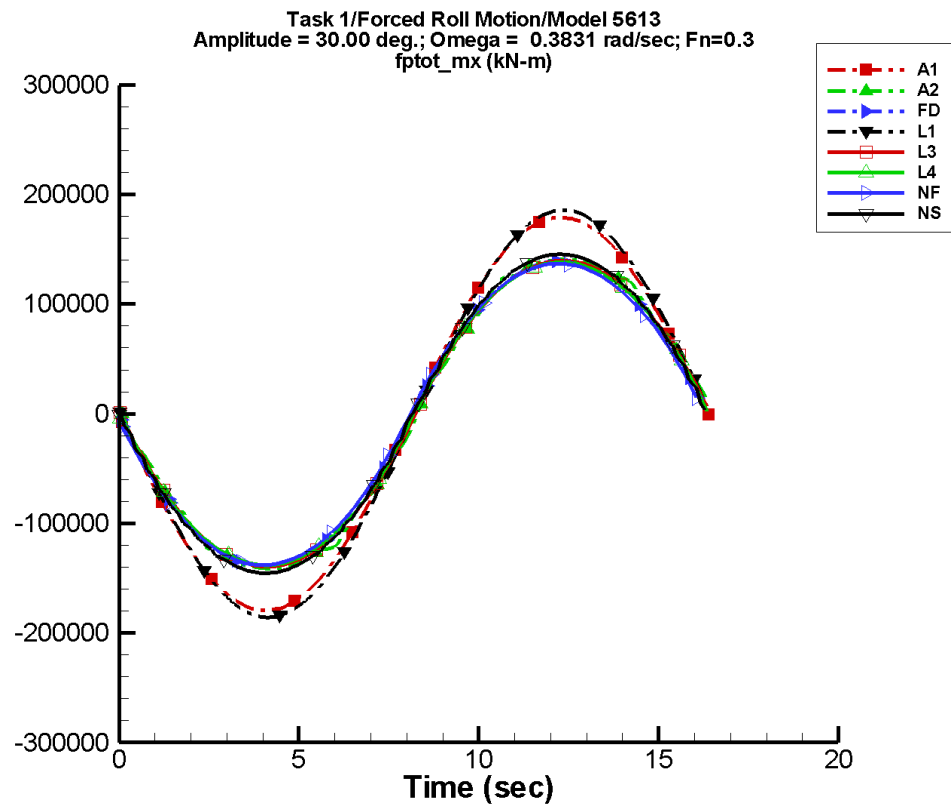


Figure C-143. Time history of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–285. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-7.67	1.79E+05	-180	39.7	68
A2	-165.	1.47E+05	178	855.	-123
FD	-176.	1.44E+05	-180	1.13E+03	-105
L1	93.4	1.85E+05	179	164.	148
L3	-474.	1.44E+05	179	841.	-39
L4	-484.	1.42E+05	180	868.	-36
NF	600.	1.41E+05	167	1.58E+03	153
NS	8.97	1.49E+05	-180	5.50	-102

Table C–286. Minimum and maximum of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.79E+05	1.79E+05	-1.80E+05	1.78E+05
A2	-1.41E+05	1.41E+05	-1.42E+05	1.40E+05
FD	-1.39E+05	1.39E+05	-1.39E+05	1.39E+05
L1	-1.86E+05	1.86E+05	-1.86E+05	1.86E+05
L3	-1.40E+05	1.40E+05	-1.39E+05	1.39E+05
L4	-1.38E+05	1.38E+05	-1.38E+05	1.38E+05
NF	-1.38E+05	1.37E+05	-1.37E+05	1.36E+05
NS	-1.45E+05	1.45E+05	-1.45E+05	1.45E+05

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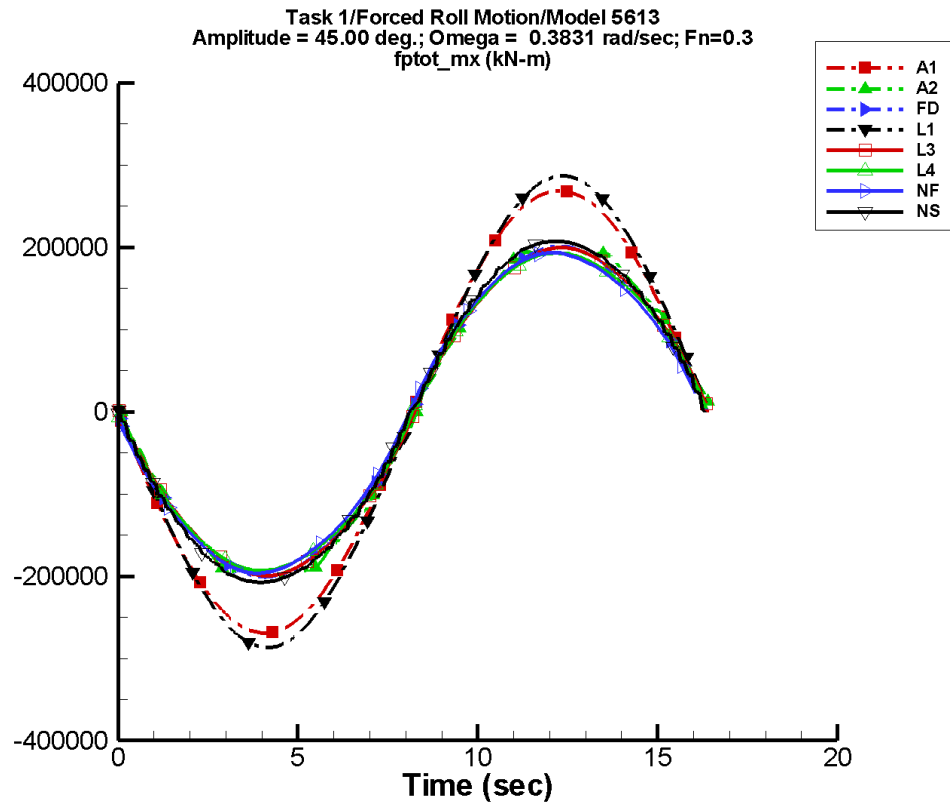


Figure C-144. Time history of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–287. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-11.5	2.69E+05	-180	59.5	68
A2	-261.	2.09E+05	178	1.41E+03	-124
FD	-227.	2.04E+05	-180	1.45E+03	-106
L1	309.	2.84E+05	179	544.	148
L3	-633.	2.03E+05	179	1.16E+03	-45
L4	-750.	1.98E+05	-180	1.40E+03	-45
NF	578.	1.99E+05	167	2.20E+03	148
NS	20.4	2.13E+05	-179	16.2	-94

Table C–288. Minimum and maximum of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.69E+05	2.68E+05	-2.70E+05	2.68E+05
A2	-2.00E+05	2.00E+05	-2.00E+05	1.98E+05
FD	-2.01E+05	2.01E+05	-2.00E+05	2.00E+05
L1	-2.87E+05	2.87E+05	-2.87E+05	2.87E+05
L3	-2.00E+05	2.00E+05	-1.99E+05	1.99E+05
L4	-1.93E+05	1.93E+05	-1.93E+05	1.93E+05
NF	-1.97E+05	1.93E+05	-1.95E+05	1.92E+05
NS	-2.08E+05	2.08E+05	-2.07E+05	2.07E+05

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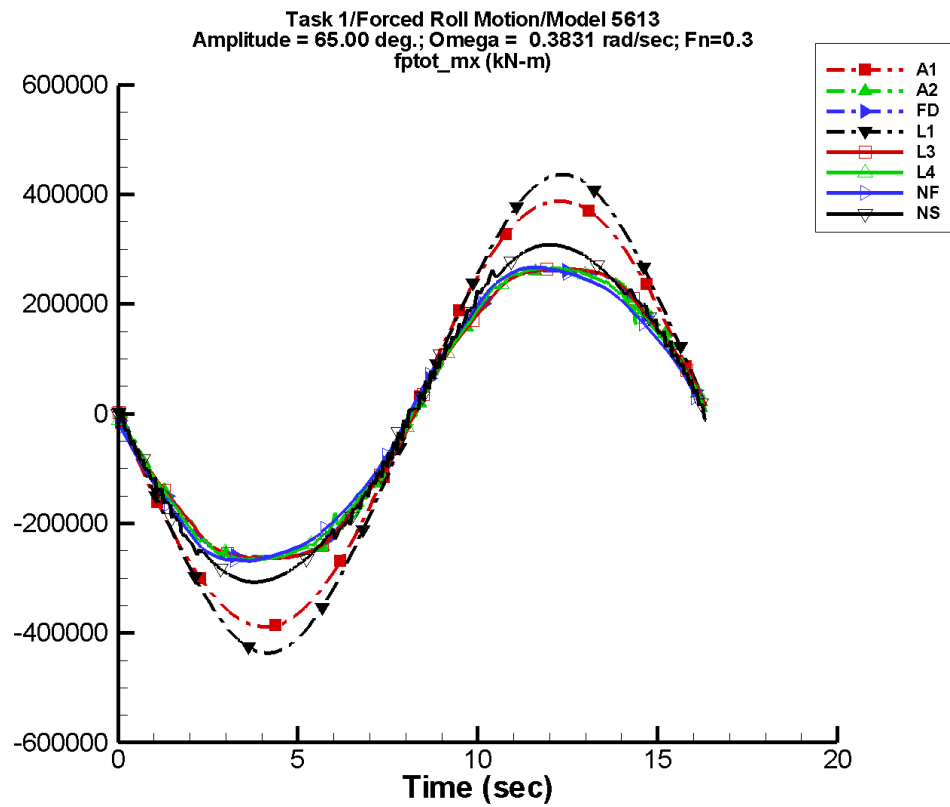


Figure C-145. Time history of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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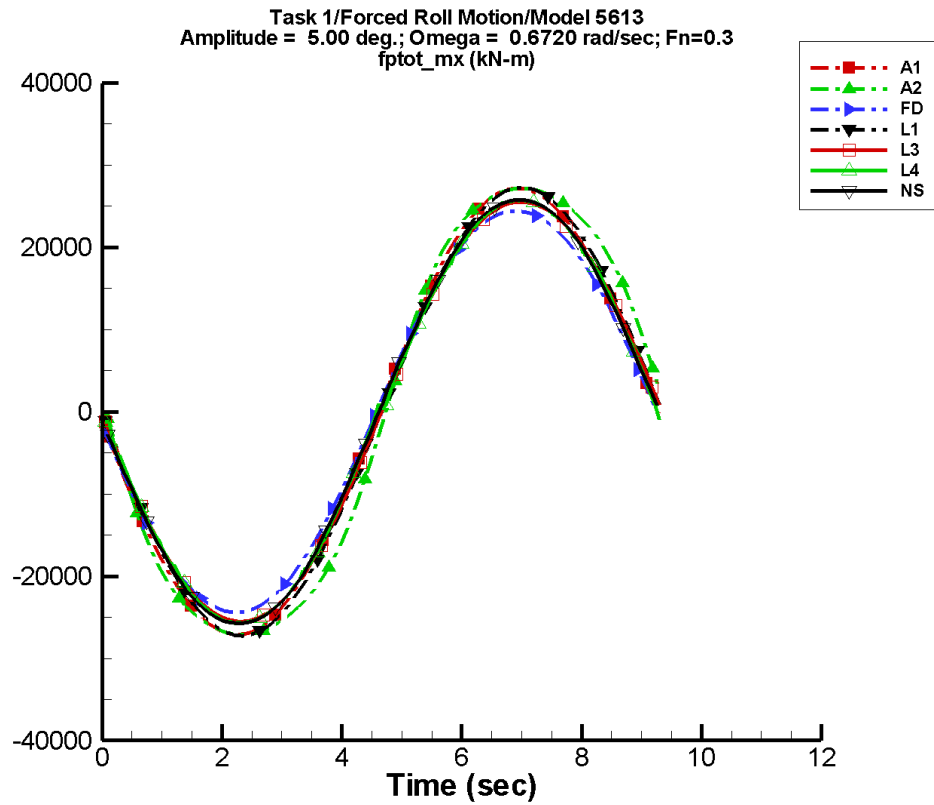
Table C–289. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-16.6	3.89E+05	-180	86.0	68
A2	-1.44E+03	2.80E+05	179	2.63E+03	-34
FD	-536.	2.79E+05	-180	2.89E+03	-100
L1	896.	4.27E+05	179	1.57E+03	148
L3	-1.19E+03	2.79E+05	179	1.96E+03	-32
L4	-930.	2.77E+05	-179	1.72E+03	-50
NF	585.	2.77E+05	168	3.67E+03	139
NS	222.	3.09E+05	-178	279.	-73

Table C–290. Minimum and maximum of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.89E+05	3.88E+05	-3.90E+05	3.86E+05
A2	-2.61E+05	2.62E+05	-2.61E+05	2.62E+05
FD	-2.61E+05	2.61E+05	-2.61E+05	2.61E+05
L1	-4.37E+05	4.37E+05	-4.36E+05	4.36E+05
L3	-2.64E+05	2.64E+05	-2.64E+05	2.64E+05
L4	-2.66E+05	2.66E+05	-2.65E+05	2.65E+05
NF	-2.68E+05	2.66E+05	-2.67E+05	2.65E+05
NS	-3.08E+05	3.09E+05	-3.07E+05	3.08E+05

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Data identically zero, insufficient, or not available from NFA.

Figure C-146. Time history of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

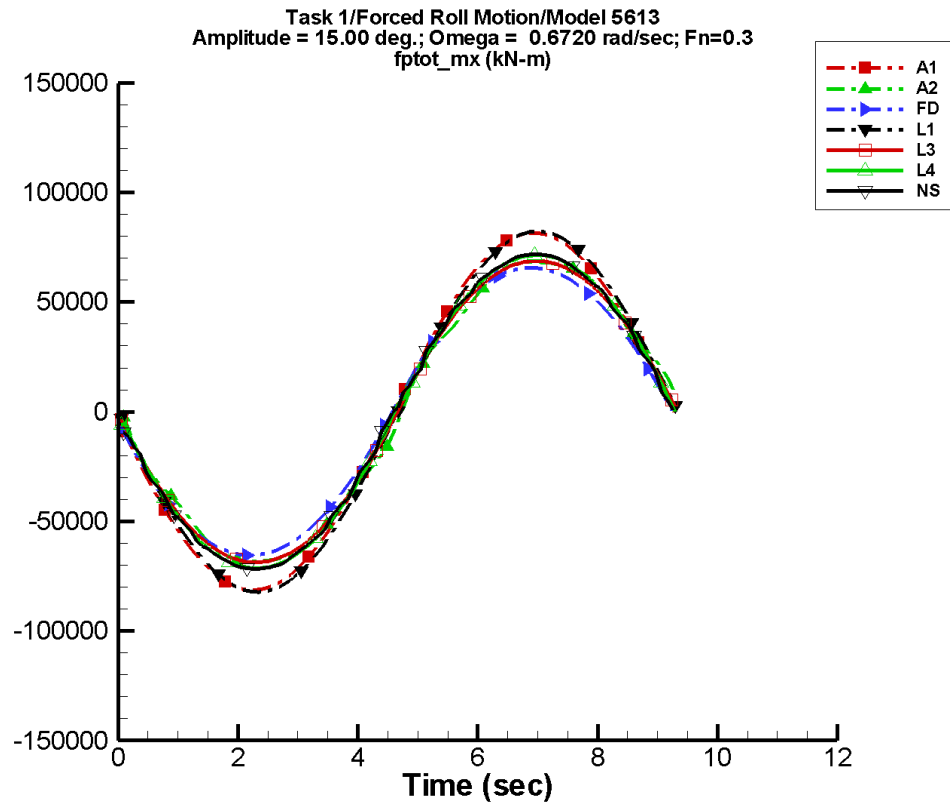
Table C–291. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.72	2.72E+04	-177	12.4	-85
A2	-113.	2.90E+04	179	258.	-142
FD	-18.4	2.46E+04	-176	34.9	-38
L1	-0.440	2.72E+04	-180	1.13	55
L3	-2.24	2.58E+04	-179	61.3	-122
L4	10.3	2.58E+04	-179	16.5	64
NF	—	—	—	—	—
NS	-0.660	2.60E+04	-178	1.18	154

Table C–292. Minimum and maximum of M_x^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.71E+04	2.72E+04	-2.68E+04	2.69E+04
A2	-2.71E+04	2.72E+04	-2.69E+04	2.70E+04
FD	-2.44E+04	2.44E+04	-2.41E+04	2.41E+04
L1	-2.73E+04	2.72E+04	-2.71E+04	2.71E+04
L3	-2.55E+04	2.55E+04	-2.54E+04	2.54E+04
L4	-2.57E+04	2.57E+04	-2.56E+04	2.56E+04
NF	—	—	—	—
NS	-2.58E+04	2.58E+04	-2.55E+04	2.55E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-147. Time history of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–293. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-11.2	8.15E+04	-177	37.3	-85
A2	-164.	7.03E+04	179	333.	-113
FD	-150.	6.70E+04	-176	285.	-40
L1	-1.65	8.21E+04	-180	30.2	55
L3	-16.6	7.03E+04	-179	415.	-122
L4	6.18	7.26E+04	-179	271.	-116
NF	—	—	—	—	—
NS	0.574	7.28E+04	-178	4.11	133

Table C–294. Minimum and maximum of M_x^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.14E+04	8.15E+04	-8.04E+04	8.06E+04
A2	-6.81E+04	6.83E+04	-6.78E+04	6.79E+04
FD	-6.55E+04	6.55E+04	-6.49E+04	6.49E+04
L1	-8.23E+04	8.23E+04	-8.19E+04	8.19E+04
L3	-6.87E+04	6.87E+04	-6.85E+04	6.85E+04
L4	-7.15E+04	7.15E+04	-7.12E+04	7.11E+04
NF	—	—	—	—
NS	-7.17E+04	7.17E+04	-7.11E+04	7.11E+04

TASK 1/ROLL MOTION/MODEL 5613

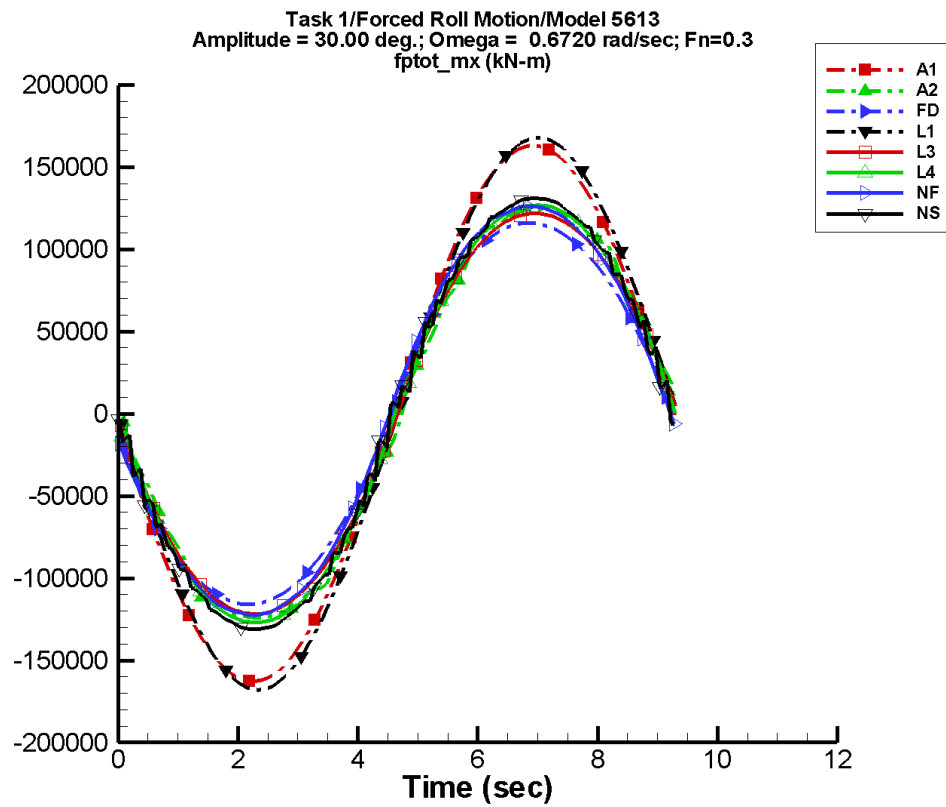


Figure C-148. Time history of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–295. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-22.3	1.63E+05	-177	74.5	-85
A2	-344.	1.30E+05	179	650.	-144
FD	-427.	1.20E+05	-175	814.	-42
L1	-4.37	1.67E+05	-180	238.	55
L3	-56.5	1.26E+05	-178	1.18E+03	-121
L4	-12.5	1.31E+05	-179	1.06E+03	-118
NF	-361.	1.31E+05	-178	1.06E+03	42
NS	7.26	1.34E+05	-178	4.99	148

Table C–296. Minimum and maximum of M_x^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.63E+05	1.63E+05	-1.61E+05	1.61E+05
A2	-1.24E+05	1.24E+05	-1.23E+05	1.23E+05
FD	-1.16E+05	1.16E+05	-1.15E+05	1.15E+05
L1	-1.68E+05	1.68E+05	-1.67E+05	1.67E+05
L3	-1.22E+05	1.22E+05	-1.21E+05	1.21E+05
L4	-1.27E+05	1.27E+05	-1.26E+05	1.26E+05
NF	-1.27E+05	1.28E+05	-1.26E+05	1.27E+05
NS	-1.31E+05	1.31E+05	-1.31E+05	1.31E+05

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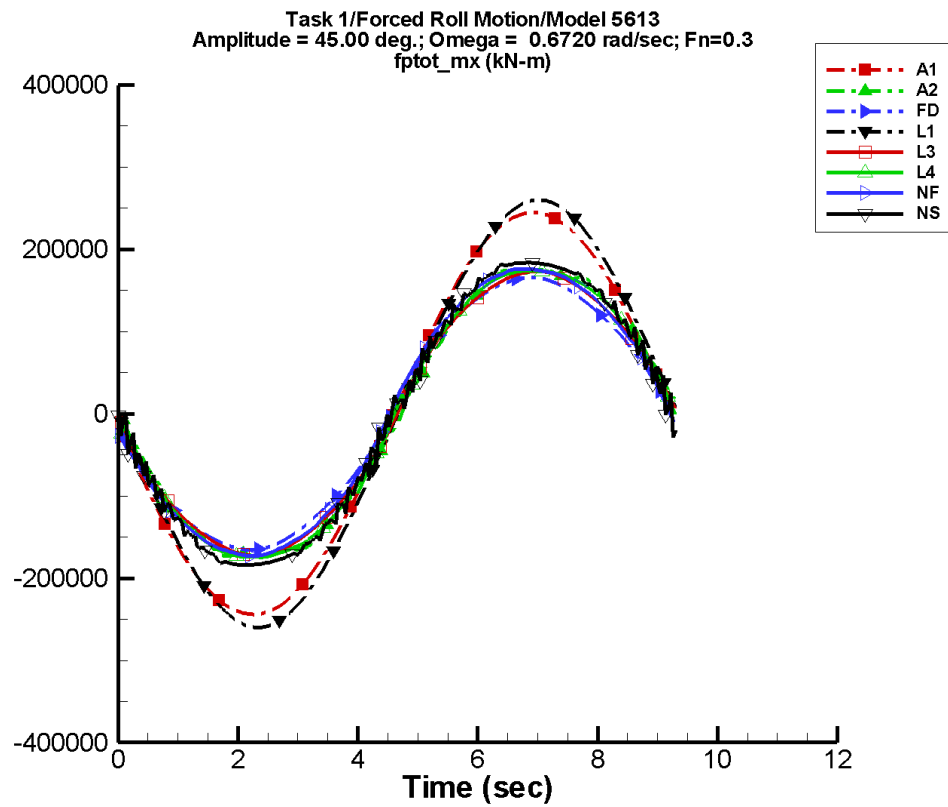


Figure C-149. Time history of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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Table C–297. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-33.5	2.44E+05	-177	112.	-85
A2	-579.	1.84E+05	179	1.08E+03	-149
FD	-537.	1.69E+05	-175	1.08E+03	-49
L1	-8.67	2.57E+05	-180	786.	55
L3	-140.	1.77E+05	-178	1.57E+03	-118
L4	-13.2	1.82E+05	-178	1.86E+03	-119
NF	-428.	1.85E+05	-178	1.63E+03	55
NS	18.6	1.91E+05	-178	21.9	-143

Table C–298. Minimum and maximum of M_x^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.44E+05	2.45E+05	-2.41E+05	2.42E+05
A2	-1.74E+05	1.75E+05	-1.73E+05	1.73E+05
FD	-1.66E+05	1.66E+05	-1.64E+05	1.64E+05
L1	-2.60E+05	2.60E+05	-2.59E+05	2.59E+05
L3	-1.73E+05	1.73E+05	-1.72E+05	1.72E+05
L4	-1.74E+05	1.74E+05	-1.74E+05	1.74E+05
NF	-1.77E+05	1.79E+05	-1.77E+05	1.79E+05
NS	-1.84E+05	1.84E+05	-1.84E+05	1.84E+05

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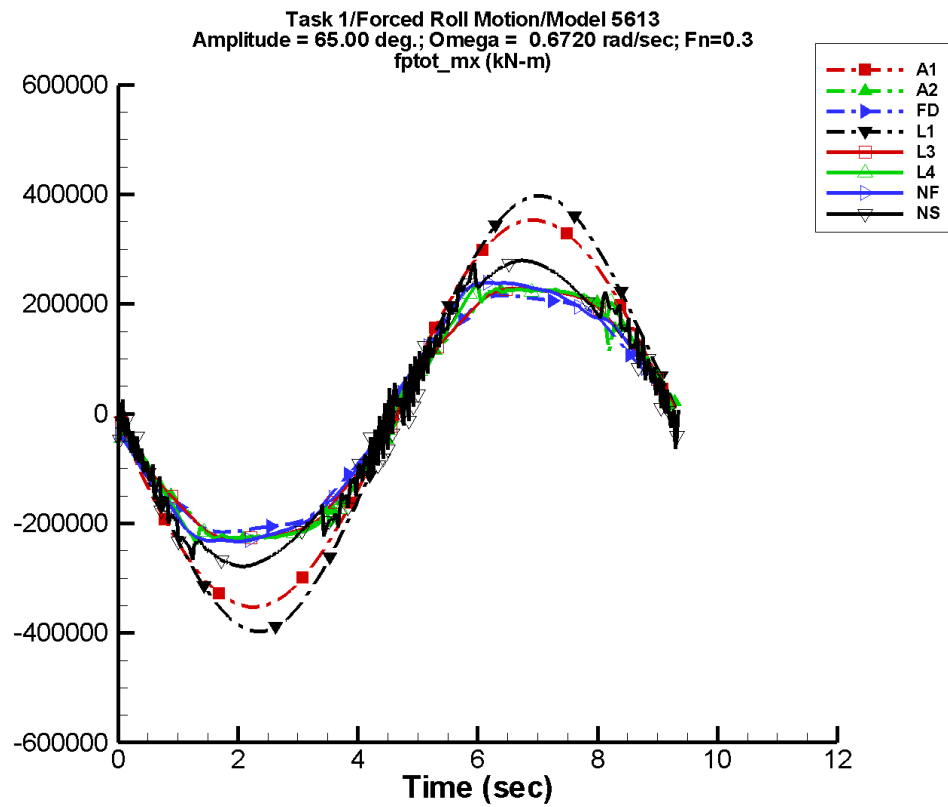


Figure C-150. Time history of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

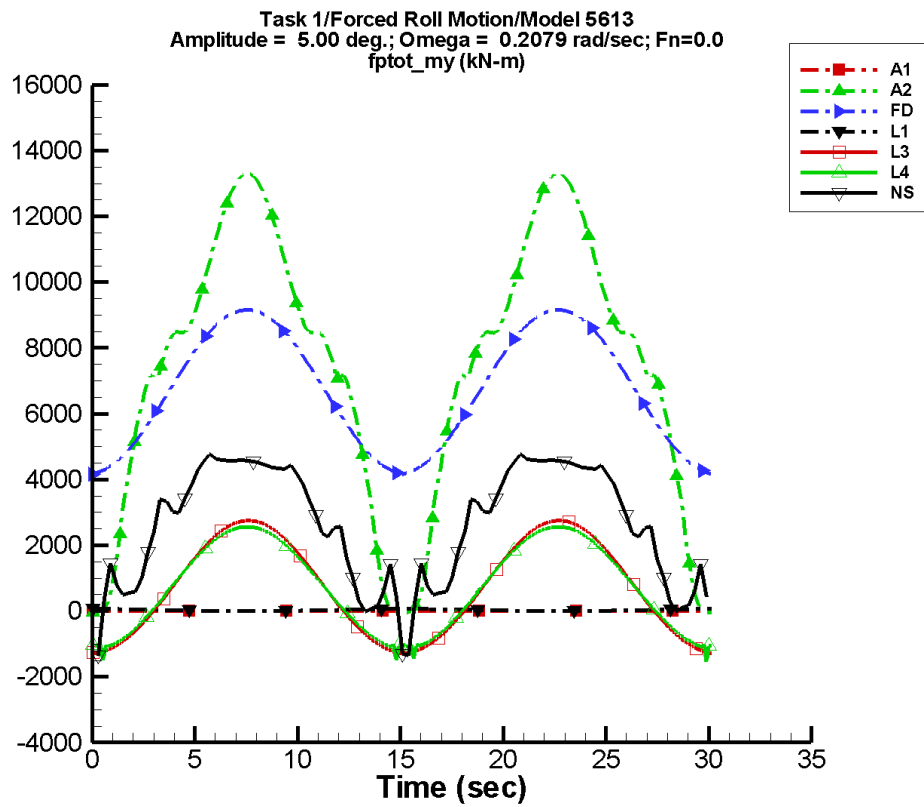
Table C–299. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-48.3	3.53E+05	-177	162.	-85
A2	-1.82E+03	2.45E+05	180	934.	-111
FD	-1.22E+03	2.27E+05	-174	2.10E+03	-31
L1	-15.7	3.88E+05	180	2.27E+03	55
L3	-76.2	2.41E+05	-178	2.82E+03	-121
L4	159.	2.49E+05	-178	4.65E+03	-124
NF	-1.31E+03	2.52E+05	-176	8.25E+03	16
NS	200.	2.79E+05	-176	235.	-52

Table C–300. Minimum and maximum of M_x^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.53E+05	3.53E+05	-3.49E+05	3.49E+05
A2	-2.28E+05	2.28E+05	-2.27E+05	2.27E+05
FD	-2.16E+05	2.16E+05	-2.14E+05	2.14E+05
L1	-3.98E+05	3.98E+05	-3.96E+05	3.96E+05
L3	-2.28E+05	2.28E+05	-2.28E+05	2.27E+05
L4	-2.39E+05	2.39E+05	-2.26E+05	2.26E+05
NF	-2.39E+05	2.45E+05	-2.37E+05	2.42E+05
NS	-2.80E+05	2.81E+05	-2.79E+05	2.80E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-151. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

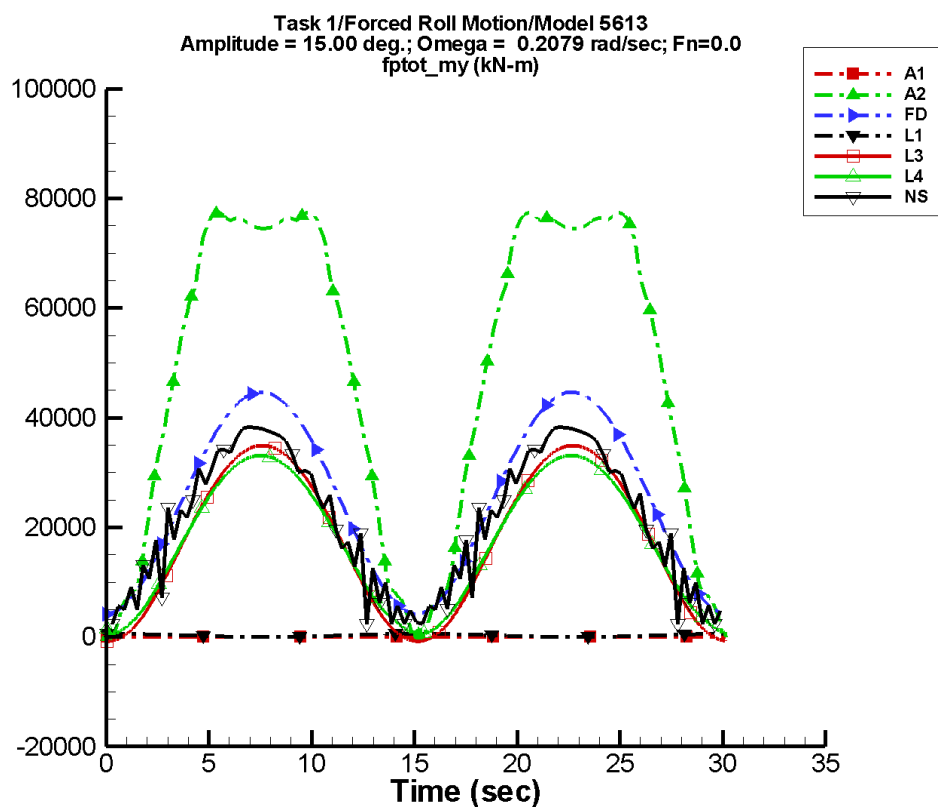
Table C–301. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.26E-05	7.21E-03	175	1.74E-05	-44
A2	7.33E+03	13.5	-28	5.58E+03	-89
FD	6.70E+03	0.470	-17	2.46E+03	-90
L1	32.1	2.23E-03	-4	32.2	86
L3	706.	2.24	120	2.01E+03	-91
L4	694.	2.94	-115	1.85E+03	-91
NF	—	—	—	—	—
NS	2.57E+03	0.687	-22	2.42E+03	-86

Table C–302. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.51E-03	7.47E-03	-7.43E-03	7.39E-03
A2	-38.2	1.33E+04	-66.2	1.32E+04
FD	4.16E+03	9.15E+03	4.17E+03	9.14E+03
L1	-6.48E-02	64.4	-9.82E-03	64.3
L3	-1.27E+03	2.75E+03	-1.27E+03	2.75E+03
L4	-1.54E+03	2.56E+03	-1.18E+03	2.56E+03
NF	—	—	—	—
NS	-1.35E+03	4.77E+03	-725.	4.59E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-152. Time history of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

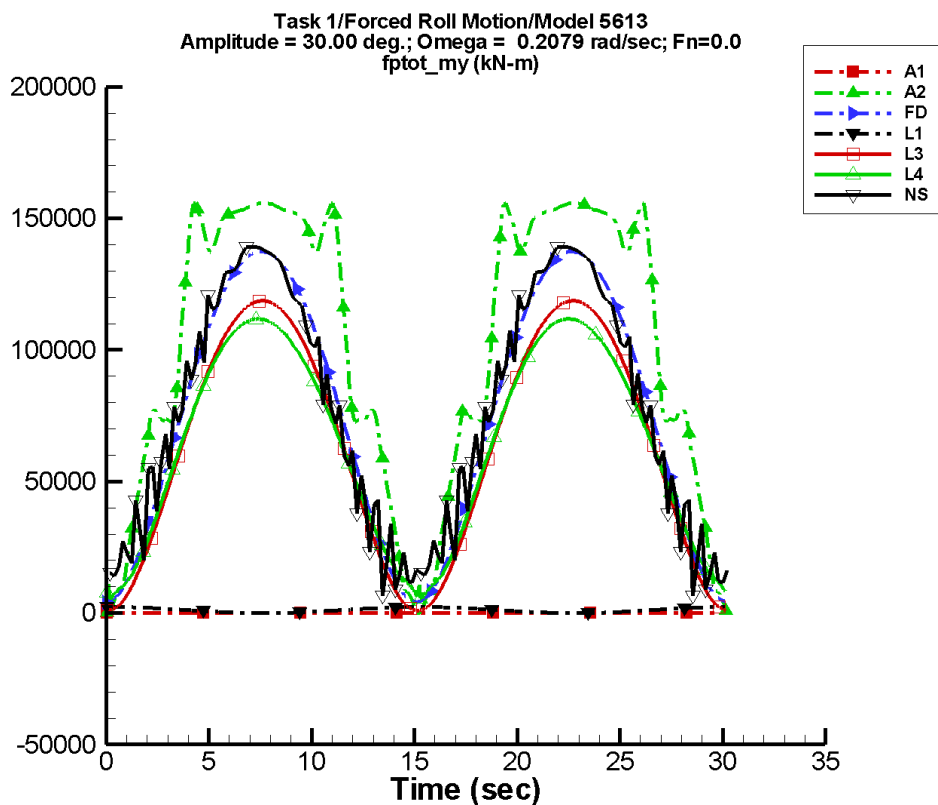
Table C–303. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.77E-05	2.16E-02	175	5.22E-05	-44
A2	4.84E+04	200.	2	3.88E+04	-91
FD	2.50E+04	12.5	5	2.02E+04	-90
L1	289.	5.94E-03	-9	290.	86
L3	1.75E+04	30.1	-59	1.79E+04	-91
L4	1.74E+04	45.4	-86	1.62E+04	-90
NF	—	—	—	—	—
NS	2.09E+04	6.68	-14	1.71E+04	-84

Table C–304. Minimum and maximum of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.25E-02	2.24E-02	-2.23E-02	2.21E-02
A2	-38.0	7.75E+04	-133.	7.71E+04
FD	4.16E+03	4.47E+04	4.15E+03	4.46E+04
L1	-0.534	579.	-7.27E-02	579.
L3	-759.	3.49E+04	-740.	3.49E+04
L4	-469.	3.31E+04	617.	3.31E+04
NF	—	—	—	—
NS	2.26E+03	3.84E+04	3.55E+03	3.74E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-153. Time history of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

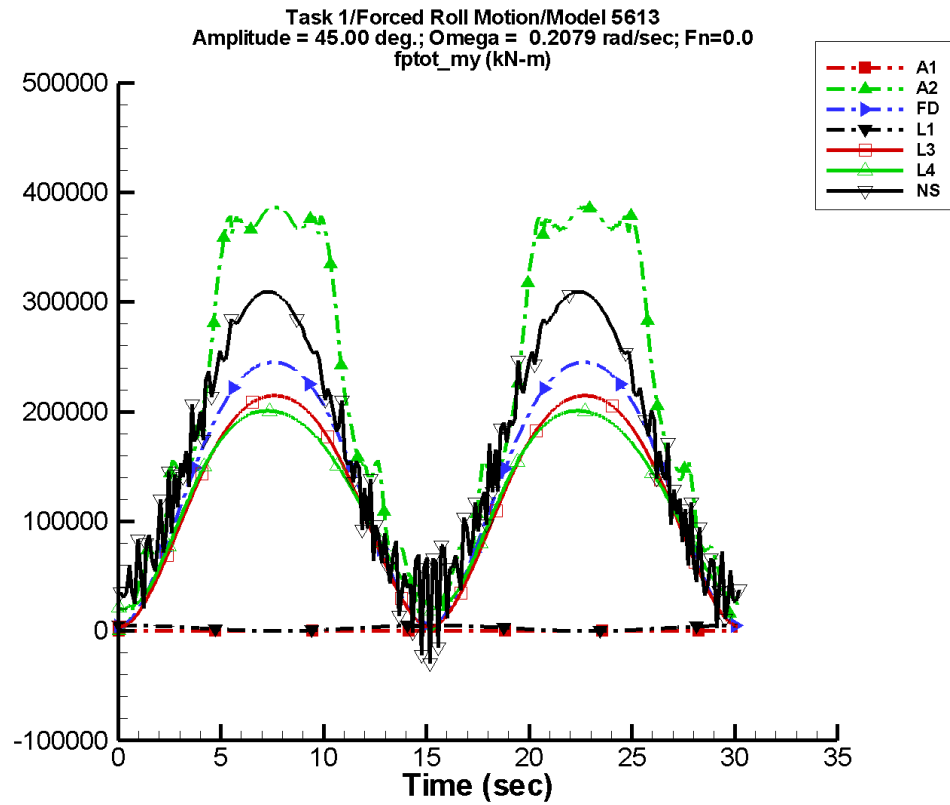
Table C–305. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-7.54E-05	4.33E-02	175	1.04E-04	-44
A2	1.01E+05	368.	-13	7.21E+04	-91
FD	7.49E+04	87.9	3	6.60E+04	-90
L1	1.16E+03	1.23E-02	-8	1.16E+03	86
L3	6.35E+04	283.	-61	5.81E+04	-91
L4	6.34E+04	401.	-79	5.13E+04	-90
NF	—	—	—	—	—
NS	7.68E+04	28.8	-14	6.19E+04	-84

Table C–306. Minimum and maximum of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.50E-02	4.48E-02	-4.45E-02	4.43E-02
A2	-38.0	1.56E+05	428.	1.56E+05
FD	4.17E+03	1.37E+05	4.11E+03	1.37E+05
L1	-2.11	2.32E+03	-0.279	2.32E+03
L3	978.	1.19E+05	1.06E+03	1.19E+05
L4	5.24E+03	1.12E+05	7.24E+03	1.12E+05
NF	—	—	—	—
NS	6.49E+03	1.39E+05	1.32E+04	1.38E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-154. Time history of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

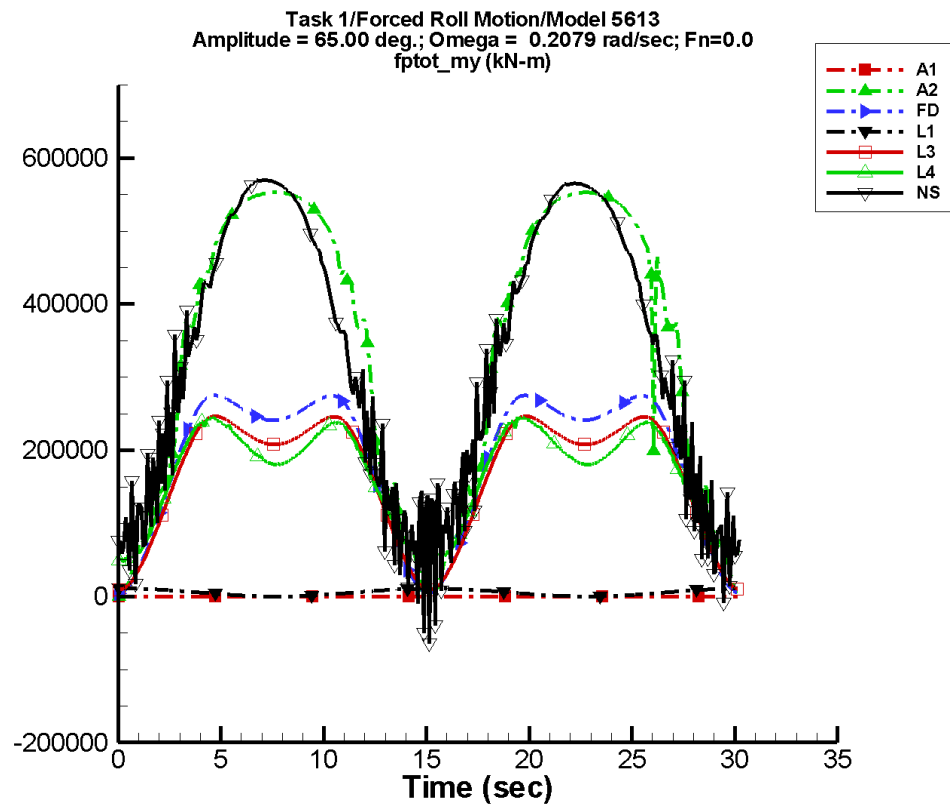
Table C–307. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.13E-04	6.49E-02	175	1.57E-04	-44
A2	2.13E+05	255.	6	1.92E+05	-92
FD	1.38E+05	300.	4	1.19E+05	-89
L1	2.60E+03	2.38E-02	-8	2.61E+03	86
L3	1.22E+05	907.	-61	1.03E+05	-91
L4	1.22E+05	1.25E+03	-78	8.81E+04	-90
NF	—	—	—	—	—
NS	1.69E+05	58.5	-29	1.38E+05	-84

Table C–308. Minimum and maximum of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.75E-02	6.72E-02	-6.68E-02	6.64E-02
A2	-32.1	3.87E+05	448.	3.86E+05
FD	4.18E+03	2.45E+05	4.15E+03	2.45E+05
L1	-4.73	5.21E+03	-0.616	5.21E+03
L3	3.87E+03	2.15E+05	4.07E+03	2.15E+05
L4	1.75E+04	2.01E+05	1.98E+04	2.01E+05
NF	—	—	—	—
NS	-2.97E+04	3.10E+05	3.00E+04	3.08E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-155. Time history of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

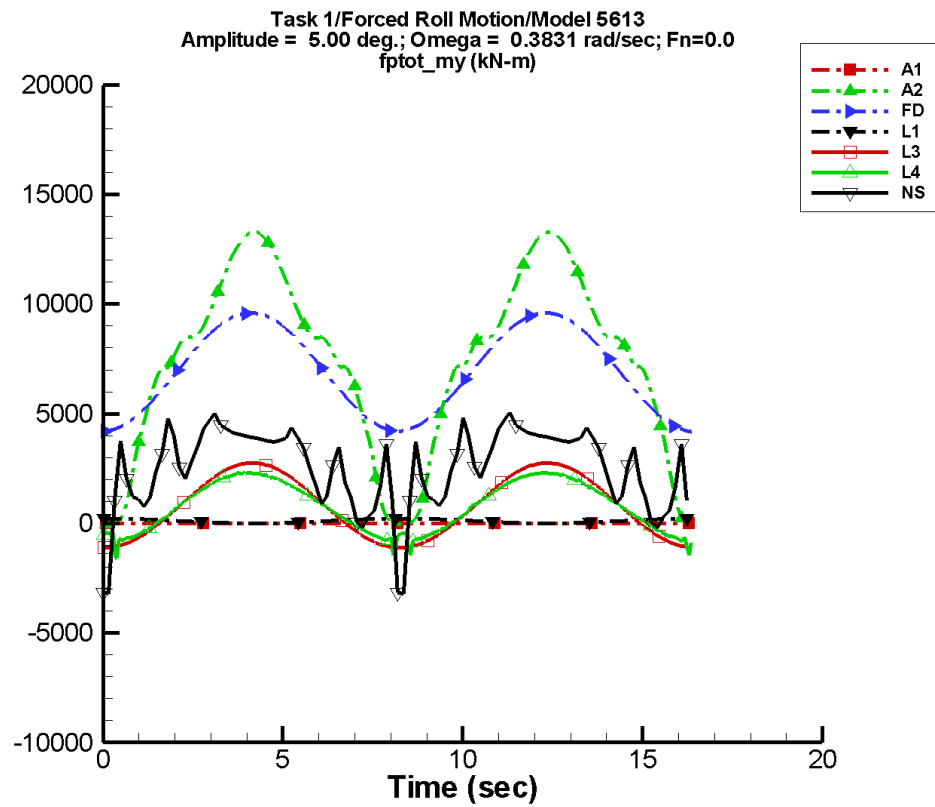
Table C–309. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.63E-04	9.37E-02	175	2.26E-04	-44
A2	3.39E+05	2.29E+03	-28	2.72E+05	-91
FD	1.85E+05	1.42E+03	6	1.18E+05	-87
L1	5.43E+03	3.78E-02	-10	5.44E+03	86
L3	1.67E+05	4.14E+03	-60	9.42E+04	-91
L4	1.69E+05	3.92E+03	-64	6.75E+04	-87
NF	—	—	—	—	—
NS	3.27E+05	1.49E+03	2	2.55E+05	-84

Table C–310. Minimum and maximum of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.75E-02	9.71E-02	-9.65E-02	9.60E-02
A2	8.58	5.53E+05	340.	5.53E+05
FD	4.18E+03	2.75E+05	4.80E+03	2.74E+05
L1	-9.86	1.09E+04	-1.29	1.09E+04
L3	9.53E+03	2.46E+05	9.96E+03	2.46E+05
L4	4.58E+04	2.45E+05	5.09E+04	2.44E+05
NF	—	—	—	—
NS	-6.49E+04	5.70E+05	6.06E+04	5.69E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-156. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

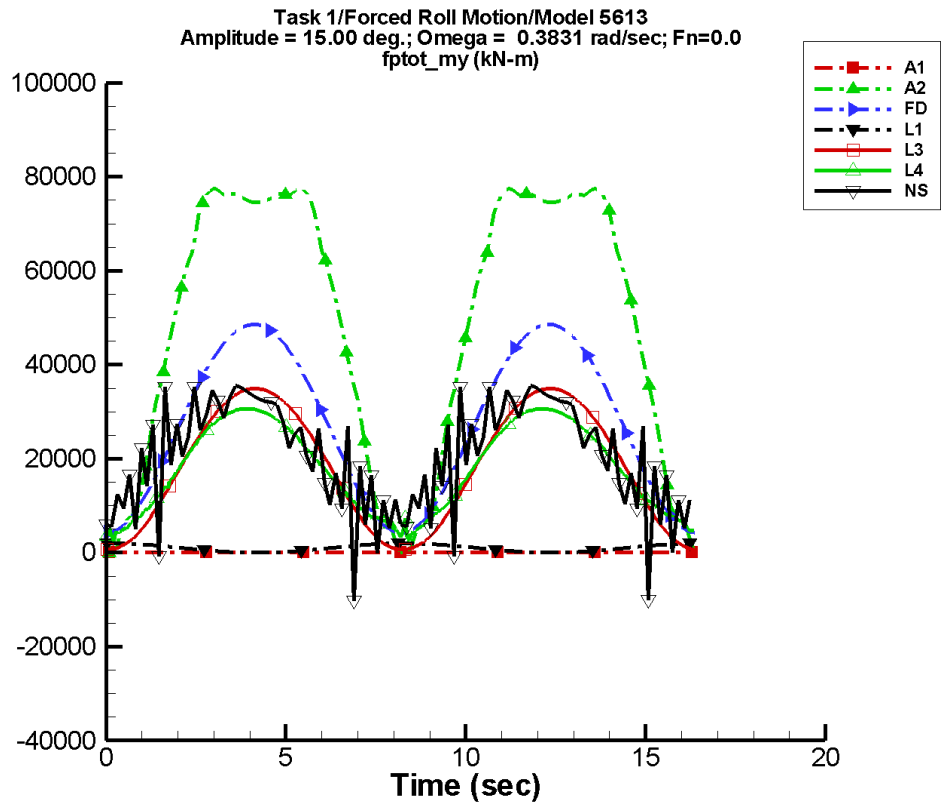
Table C–311. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.14E-05	2.36E-02	154	6.74E-05	42
A2	7.33E+03	21.0	-50	5.59E+03	-94
FD	6.92E+03	0.298	-37	2.68E+03	-90
L1	110.	1.19E-02	4	111.	86
L3	786.	2.74	147	1.93E+03	-92
L4	740.	7.02	-112	1.56E+03	-92
NF	—	—	—	—	—
NS	2.52E+03	1.33	-146	1.94E+03	-76

Table C–312. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.36E-02	2.52E-02	-2.29E-02	2.49E-02
A2	-38.3	1.33E+04	-110.	1.32E+04
FD	4.16E+03	9.59E+03	4.22E+03	9.55E+03
L1	-0.736	221.	-0.156	221.
L3	-1.12E+03	2.75E+03	-1.12E+03	2.74E+03
L4	-1.62E+03	2.35E+03	-873.	2.29E+03
NF	—	—	—	—
NS	-3.19E+03	5.04E+03	-1.65E+03	4.24E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-157. Time history of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

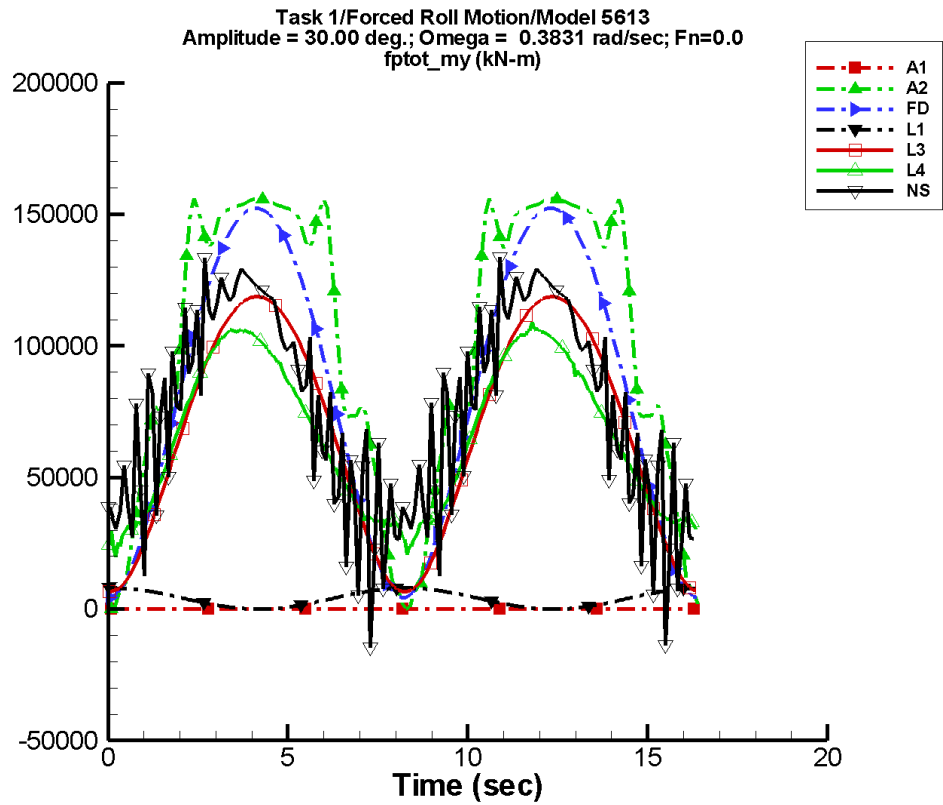
Table C–313. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.24E-04	7.08E-02	154	2.02E-04	42
A2	4.84E+04	106.	5	3.87E+04	-93
FD	2.69E+04	25.7	-59	2.21E+04	-90
L1	991.	3.48E-02	22	998.	86
L3	1.81E+04	34.4	-32	1.72E+04	-92
L4	1.77E+04	82.3	-109	1.30E+04	-88
NF	—	—	—	—	—
NS	2.07E+04	12.3	-145	1.31E+04	-71

Table C–314. Minimum and maximum of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.09E-02	7.55E-02	-6.86E-02	7.48E-02
A2	-38.2	7.75E+04	642.	7.68E+04
FD	4.18E+03	4.85E+04	4.46E+03	4.82E+04
L1	-6.68	1.99E+03	-1.33	1.99E+03
L3	645.	3.49E+04	622.	3.48E+04
L4	2.19E+03	3.06E+04	3.71E+03	3.06E+04
NF	—	—	—	—
NS	-1.02E+04	3.56E+04	7.62E+03	3.35E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-158. Time history of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

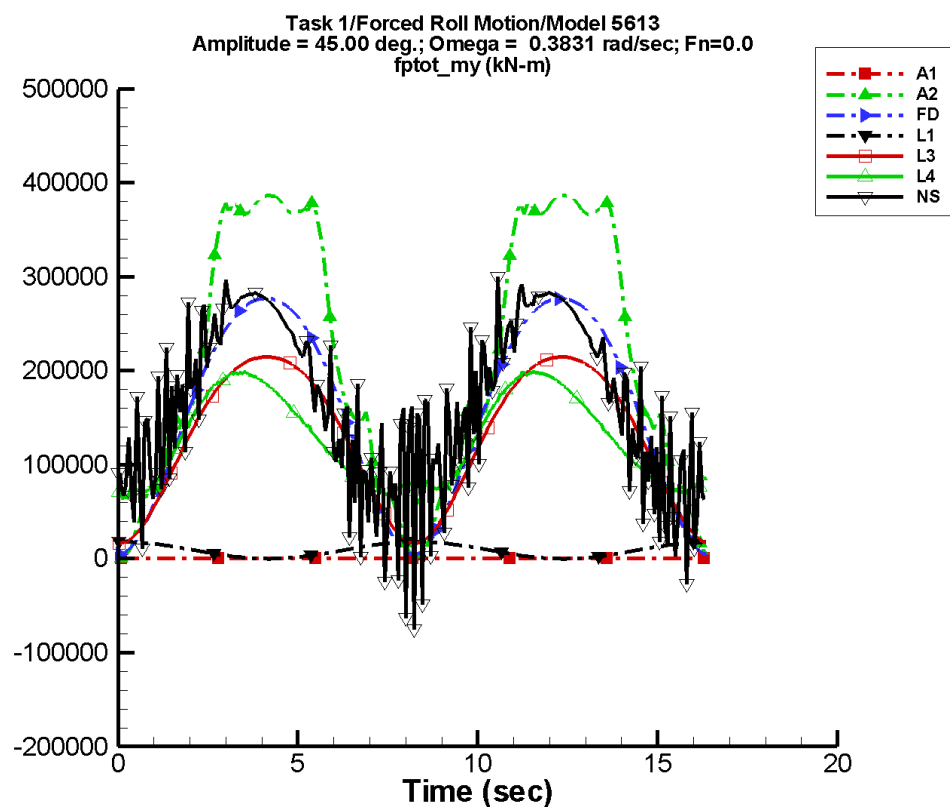
Table C–315. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.48E-04	0.142	154	4.04E-04	42
A2	1.01E+05	244.	-21	7.20E+04	-93
FD	8.25E+04	172.	-59	7.32E+04	-90
L1	3.96E+03	8.76E-02	47	3.99E+03	86
L3	6.61E+04	275.	-33	5.55E+04	-92
L4	6.48E+04	531.	-97	3.97E+04	-80
NF	—	—	—	—	—
NS	7.62E+04	45.9	-146	4.78E+04	-72

Table C–316. Minimum and maximum of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.142	0.151	-0.137	0.150
A2	-38.0	1.56E+05	1.19E+03	1.56E+05
FD	4.21E+03	1.52E+05	5.22E+03	1.51E+05
L1	-26.7	7.96E+03	-5.26	7.96E+03
L3	6.60E+03	1.19E+05	6.54E+03	1.18E+05
L4	1.98E+04	1.09E+05	2.44E+04	1.06E+05
NF	—	—	—	—
NS	-1.44E+04	1.34E+05	2.86E+04	1.25E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-159. Time history of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

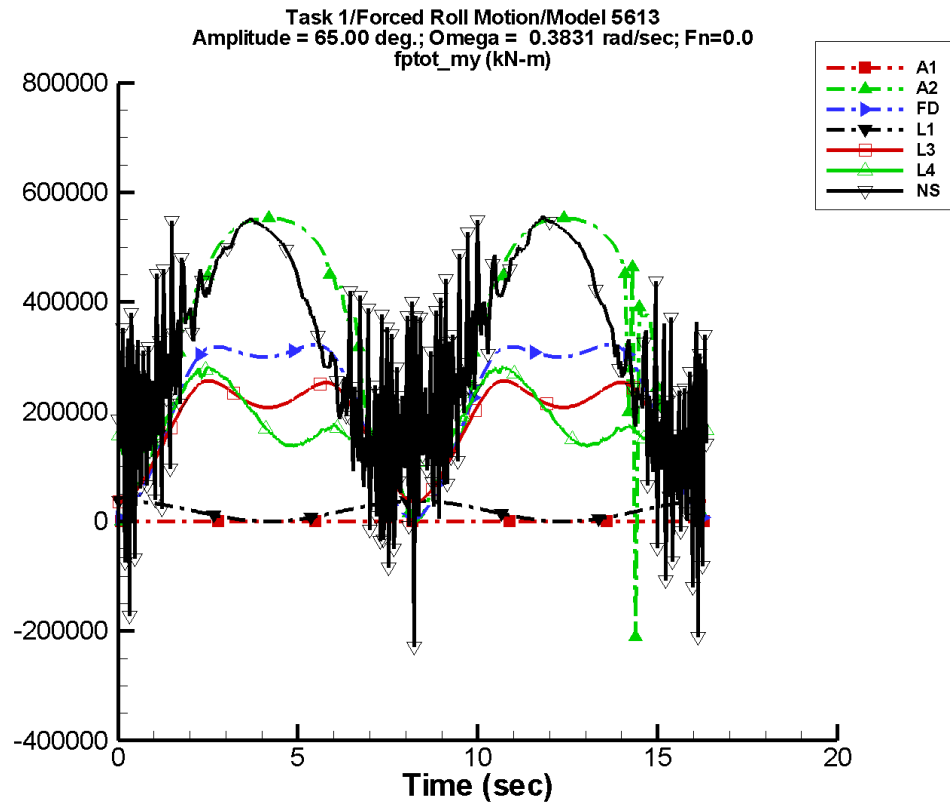
Table C–317. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.73E-04	0.212	154	6.07E-04	42
A2	2.13E+05	97.9	-15	1.91E+05	-94
FD	1.55E+05	593.	-59	1.34E+05	-90
L1	8.92E+03	0.179	60	8.98E+03	86
L3	1.28E+05	928.	-33	9.75E+04	-92
L4	1.26E+05	1.23E+03	-100	6.59E+04	-70
NF	—	—	—	—	—
NS	1.68E+05	143.	-150	1.09E+05	-72

Table C–318. Minimum and maximum of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.213	0.227	-0.206	0.224
A2	-38.0	3.86E+05	4.08E+03	3.84E+05
FD	4.25E+03	2.77E+05	6.53E+03	2.76E+05
L1	-59.9	1.79E+04	-11.8	1.79E+04
L3	1.65E+04	2.15E+05	1.65E+04	2.14E+05
L4	5.85E+04	2.00E+05	6.87E+04	1.98E+05
NF	—	—	—	—
NS	-7.52E+04	3.00E+05	6.02E+04	2.80E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-160. Time history of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

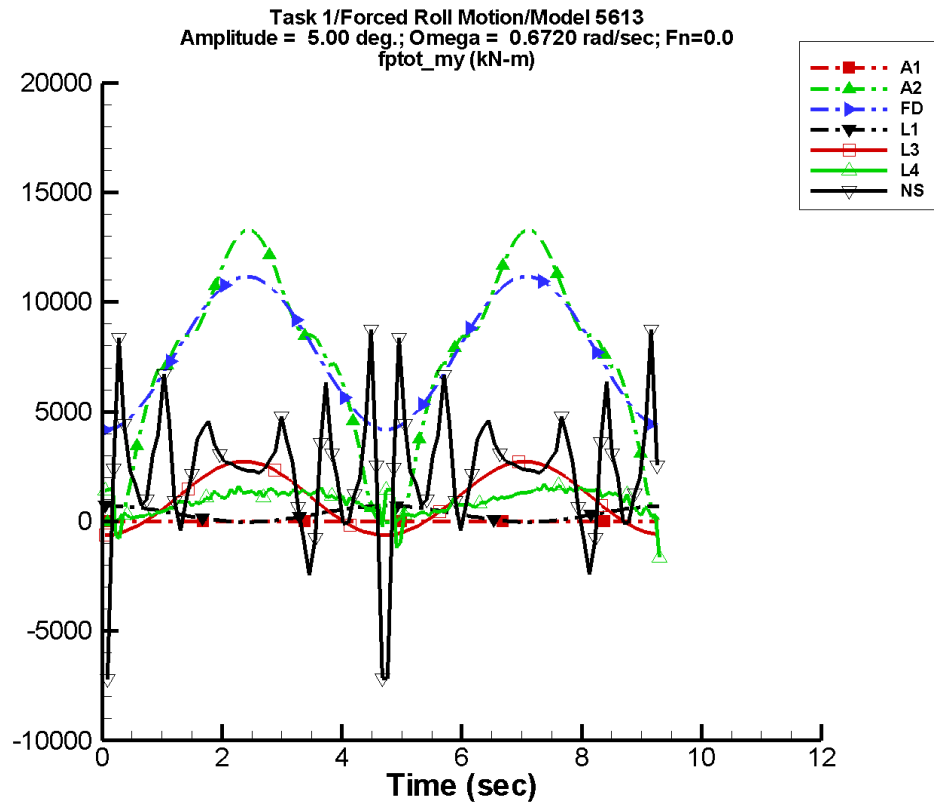
Table C–319. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-5.38E-04	0.307	154	8.76E-04	42
A2	3.34E+05	1.11E+04	-46	2.71E+05	-92
FD	2.17E+05	3.16E+03	-59	1.42E+05	-90
L1	1.86E+04	0.339	73	1.87E+04	86
L3	1.77E+05	4.60E+03	-33	8.34E+04	-88
L4	1.75E+05	4.30E+03	-63	5.87E+04	-30
NF	—	—	—	—	—
NS	3.28E+05	604.	-173	2.08E+05	-71

Table C–320. Minimum and maximum of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.307	0.327	-0.297	0.324
A2	-2.11E+05	5.53E+05	7.83E+03	5.54E+05
FD	4.31E+03	3.22E+05	9.11E+03	3.20E+05
L1	-125.	3.73E+04	-24.5	3.74E+04
L3	3.59E+04	2.57E+05	3.62E+04	2.55E+05
L4	1.09E+05	2.82E+05	1.25E+05	2.78E+05
NF	—	—	—	—
NS	-2.29E+05	5.57E+05	1.10E+05	5.50E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-161. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

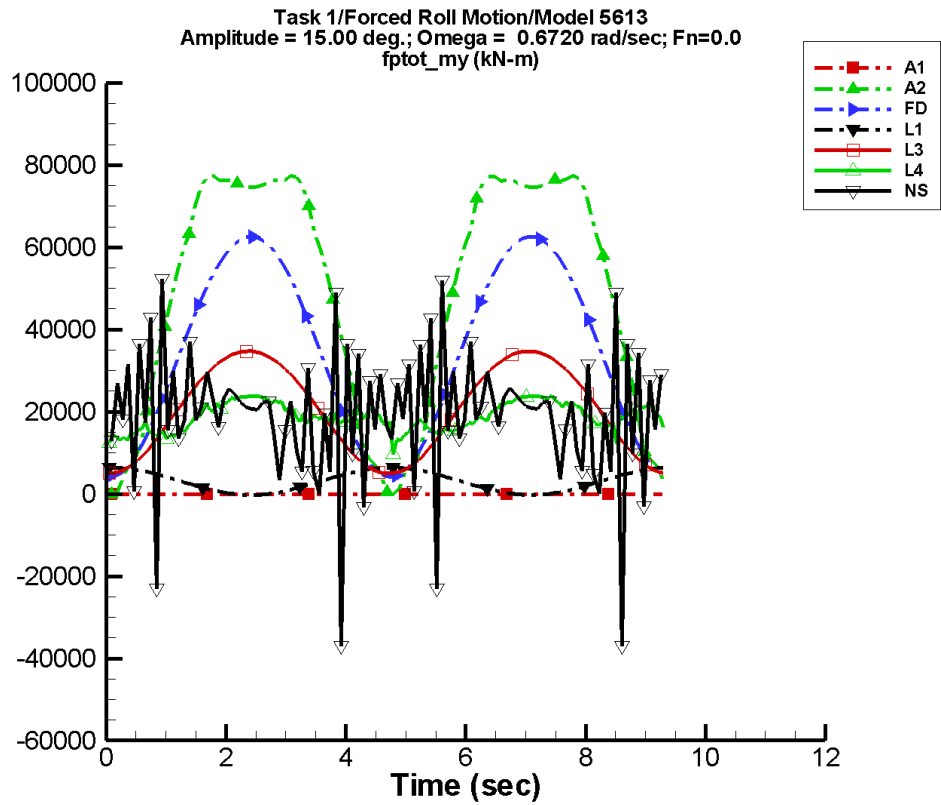
Table C–321. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.72E-04	4.81E-02	170	5.10E-04	-14
A2	7.33E+03	29.7	-45	5.60E+03	-97
FD	7.70E+03	1.18	-30	3.48E+03	-95
L1	341.	4.31E-02	-10	368.	84
L3	1.02E+03	1.23	-7	1.68E+03	-93
L4	904.	16.9	-128	566.	-128
NF	—	—	—	—	—
NS	2.29E+03	3.03	160	738.	-47

Table C–322. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.77E-02	4.61E-02	-4.63E-02	4.55E-02
A2	-38.2	1.33E+04	120.	1.28E+04
FD	4.16E+03	1.12E+04	4.21E+03	1.11E+04
L1	-26.9	708.	-21.0	709.
L3	-638.	2.73E+03	-629.	2.70E+03
L4	-1.66E+03	1.72E+03	124.	1.49E+03
NF	—	—	—	—
NS	-7.20E+03	8.77E+03	-3.74E+03	3.27E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-162. Time history of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

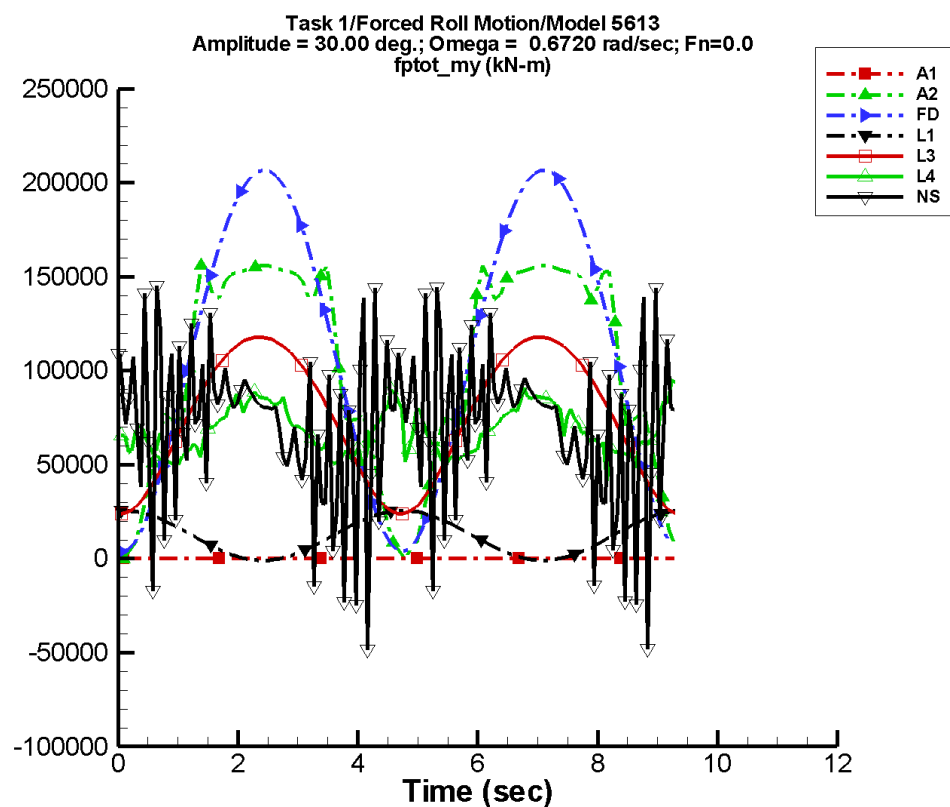
Table C–323. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.12E-03	0.144	170	1.53E-03	-14
A2	4.87E+04	827.	-3	3.96E+04	-96
FD	3.39E+04	40.7	-30	2.92E+04	-96
L1	3.07E+03	0.126	1	3.31E+03	84
L3	2.02E+04	13.6	164	1.49E+04	-93
L4	1.87E+04	175.	-112	3.90E+03	-115
NF	—	—	—	—	—
NS	1.91E+04	36.8	160	5.24E+03	-9

Table C–324. Minimum and maximum of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.143	0.138	-0.139	0.136
A2	-37.9	7.75E+04	1.03E+03	7.64E+04
FD	4.08E+03	6.26E+04	4.37E+03	6.23E+04
L1	-241.	6.37E+03	-189.	6.38E+03
L3	5.00E+03	3.47E+04	5.03E+03	3.45E+04
L4	9.65E+03	2.39E+04	1.29E+04	2.36E+04
NF	—	—	—	—
NS	-3.70E+04	5.23E+04	1.25E+04	2.44E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-163. Time history of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

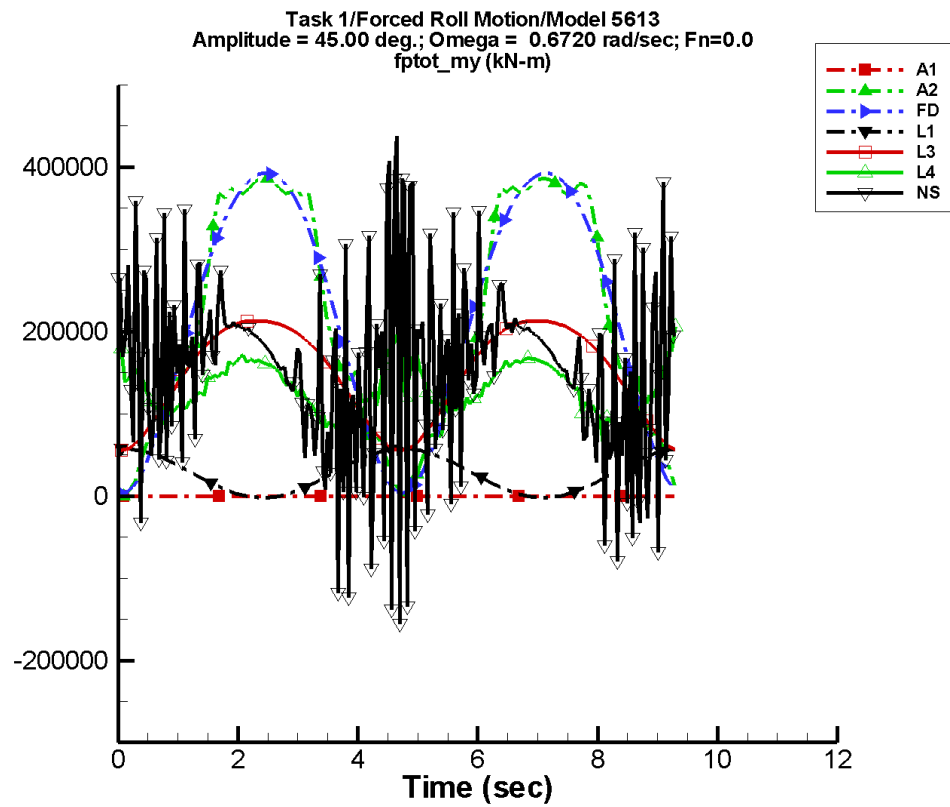
Table C–325. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.23E-03	0.288	170	3.06E-03	-14
A2	1.02E+05	1.40E+03	-8	7.34E+04	-96
FD	1.09E+05	297.	-31	1.01E+05	-96
L1	1.23E+04	0.259	9	1.32E+04	84
L3	7.44E+04	95.3	171	4.64E+04	-92
L4	6.80E+04	1.00E+03	-76	8.61E+03	-98
NF	—	—	—	—	—
NS	7.16E+04	123.	161	1.91E+04	-8

Table C–326. Minimum and maximum of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.286	0.277	-0.278	0.273
A2	-36.9	1.56E+05	6.12E+03	1.54E+05
FD	3.71E+03	2.07E+05	5.01E+03	2.06E+05
L1	-966.	2.55E+04	-757.	2.55E+04
L3	2.40E+04	1.18E+05	2.42E+04	1.17E+05
L4	4.15E+04	9.50E+04	5.23E+04	8.60E+04
NF	—	—	—	—
NS	-4.84E+04	1.45E+05	4.08E+04	9.81E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-164. Time history of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

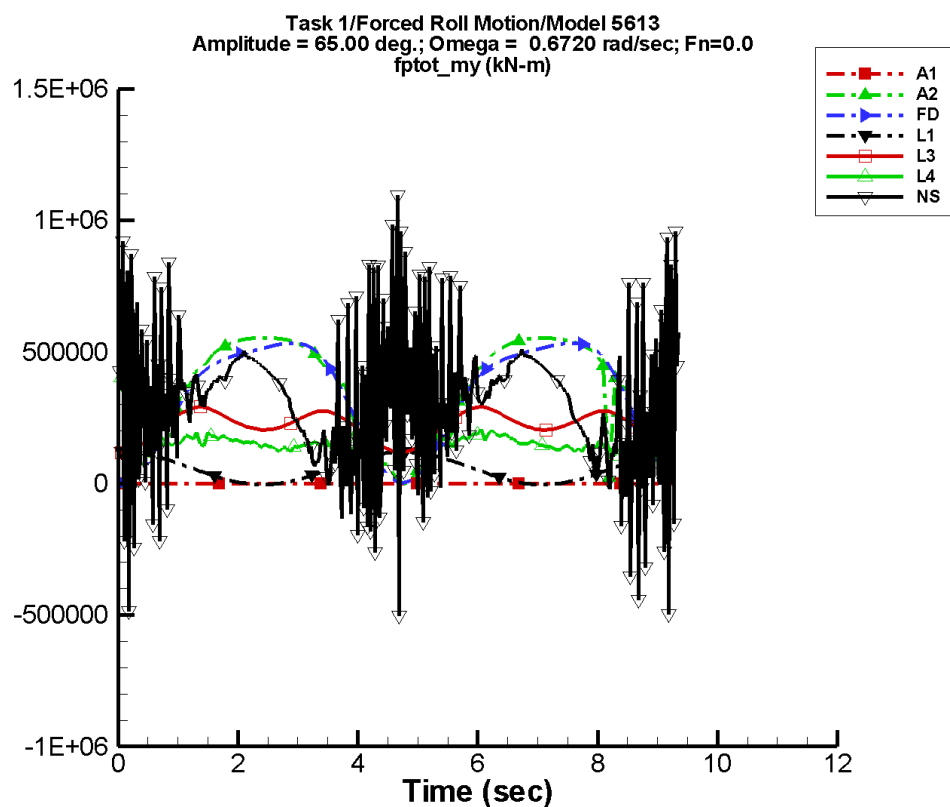
Table C–327. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.35E-03	0.433	170	4.59E-03	-14
A2	2.13E+05	675.	-1	1.93E+05	-98
FD	2.13E+05	1.05E+03	-31	1.93E+05	-97
L1	2.76E+04	0.420	16	2.98E+04	84
L3	1.46E+05	328.	171	7.71E+04	-91
L4	1.32E+05	1.95E+03	-76	1.38E+04	-51
NF	—	—	—	—	—
NS	1.59E+05	324.	-180	4.88E+04	-16

Table C–328. Minimum and maximum of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.429	0.415	-0.417	0.409
A2	-20.3	3.86E+05	9.39E+03	3.81E+05
FD	3.05E+03	3.93E+05	6.20E+03	3.93E+05
L1	-2.17E+03	5.74E+04	-1.70E+03	5.74E+04
L3	5.56E+04	2.13E+05	5.64E+04	2.12E+05
L4	6.42E+04	2.16E+05	8.61E+04	1.73E+05
NF	—	—	—	—
NS	-1.55E+05	4.39E+05	7.60E+04	2.36E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-165. Time history of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

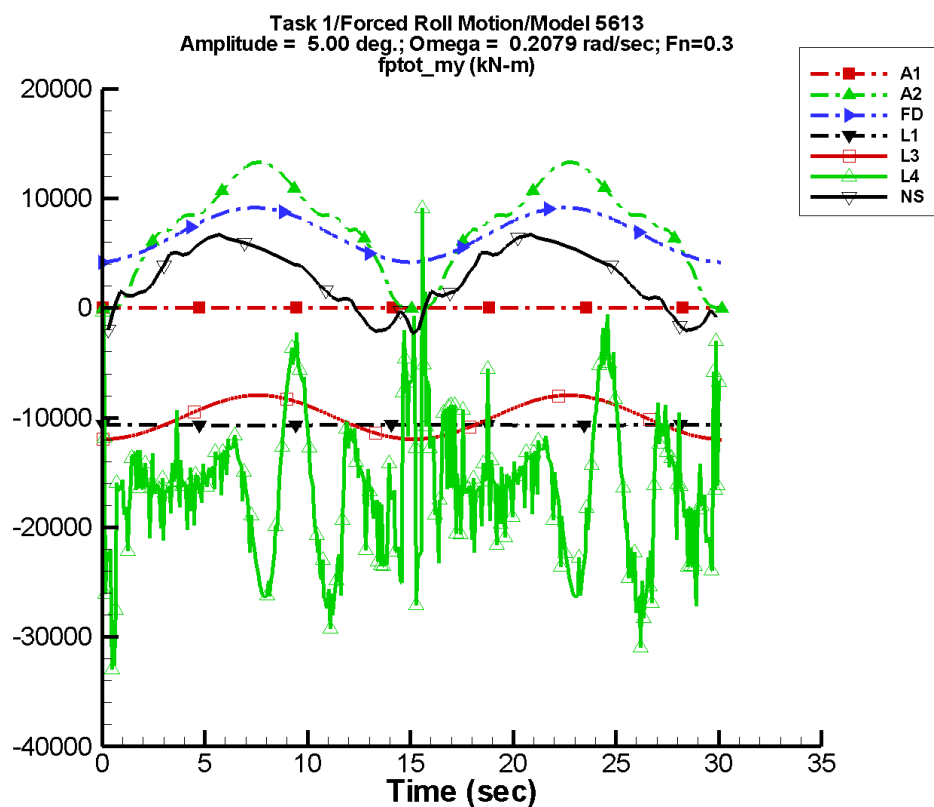
Table C–329. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.83E-03	0.625	170	6.63E-03	-14
A2	3.36E+05	1.20E+04	-33	2.74E+05	-95
FD	3.26E+05	5.07E+03	-31	2.53E+05	-100
L1	5.76E+04	0.691	31	6.21E+04	84
L3	2.16E+05	1.80E+03	169	4.26E+04	-75
L4	1.87E+05	4.31E+03	-97	6.23E+04	78
NF	—	—	—	—	—
NS	3.16E+05	794.	172	1.13E+05	-25

Table C–330. Minimum and maximum of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.620	0.600	-0.602	0.591
A2	75.4	5.53E+05	1.35E+04	5.54E+05
FD	1.73E+03	5.34E+05	9.31E+03	5.29E+05
L1	-4.54E+03	1.20E+05	-3.56E+03	1.20E+05
L3	1.18E+05	2.91E+05	1.20E+05	2.86E+05
L4	1.05E+05	4.44E+05	1.26E+05	3.57E+05
NF	—	—	—	—
NS	-5.04E+05	1.10E+06	1.06E+05	5.13E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-166. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

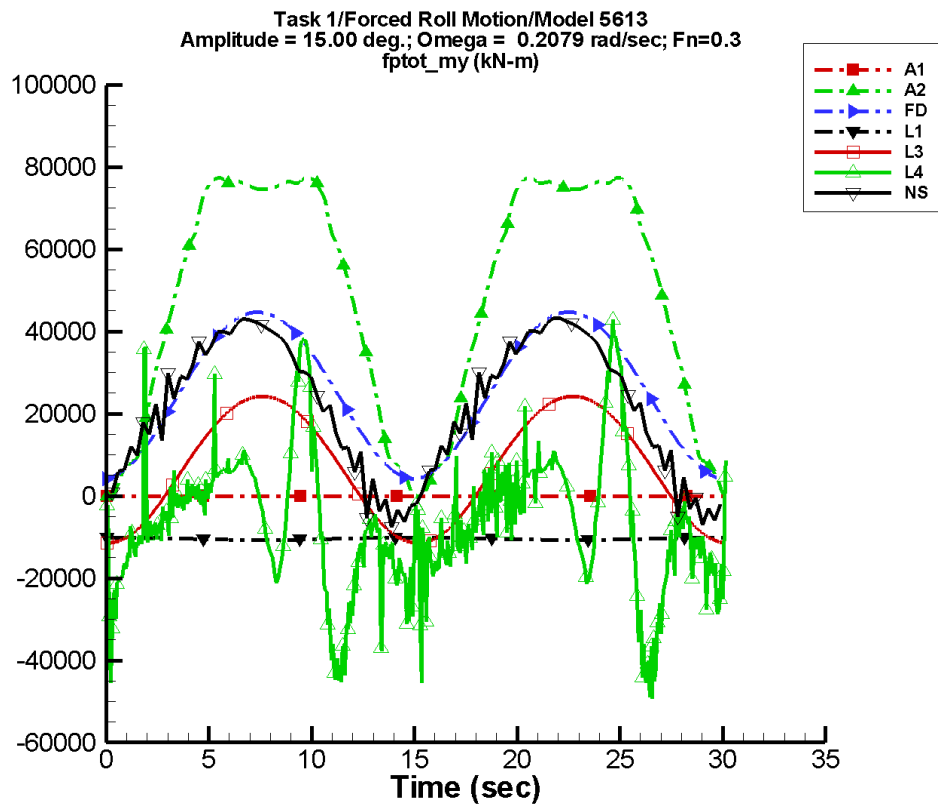
Table C–331. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.30E-05	0.360	102	1.98E-04	48
A2	7.33E+03	18.0	-52	5.58E+03	-92
FD	6.70E+03	0.467	-17	2.47E+03	-87
L1	-1.07E+04	0.120	-61	33.5	88
L3	-1.00E+04	8.19	-80	2.01E+03	-91
L4	-1.65E+04	756.	-100	867.	-8
NF	—	—	—	—	—
NS	2.72E+03	14.9	-127	3.92E+03	-60

Table C–332. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.358	0.360	-0.358	0.359
A2	-38.5	1.33E+04	-69.4	1.32E+04
FD	4.16E+03	9.16E+03	4.18E+03	9.15E+03
L1	-1.07E+04	-1.06E+04	-1.07E+04	-1.06E+04
L3	-1.20E+04	-7.94E+03	-1.20E+04	-7.95E+03
L4	-3.29E+04	9.11E+03	-2.84E+04	-3.96E+03
NF	—	—	—	—
NS	-2.35E+03	6.81E+03	-1.49E+03	6.38E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-167. Time history of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

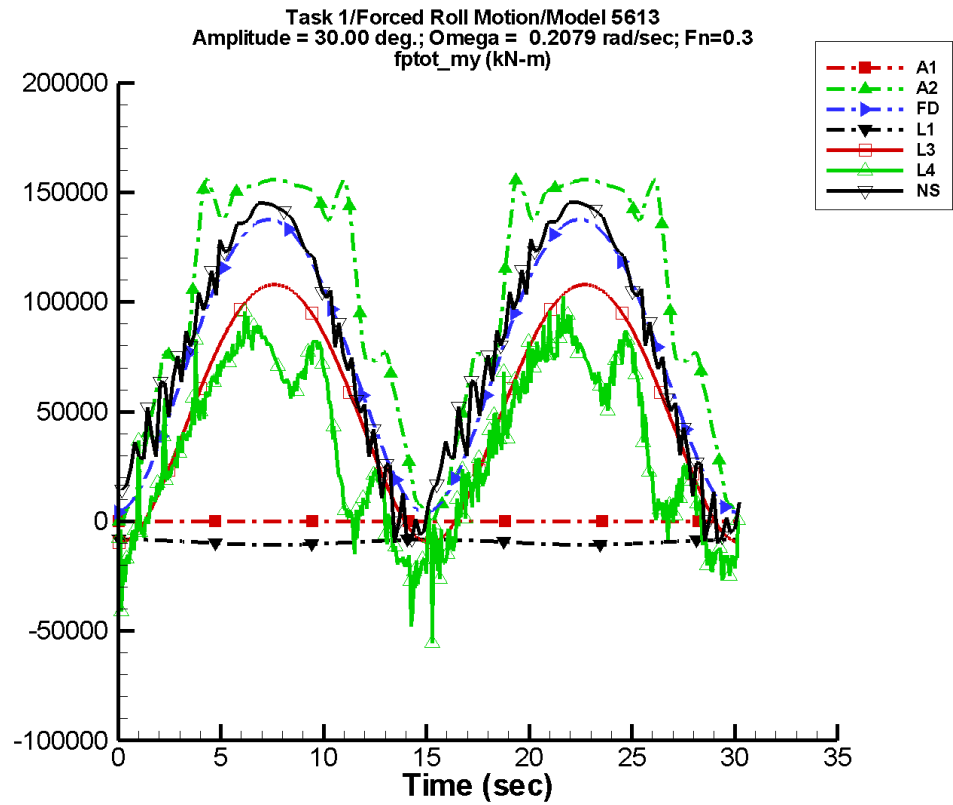
Table C–333. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.89E-04	1.08	102	5.95E-04	48
A2	4.84E+04	200.	2	3.88E+04	-91
FD	2.50E+04	12.3	6	2.03E+04	-86
L1	-1.04E+04	0.137	68	302.	88
L3	6.76E+03	39.9	-63	1.79E+04	-91
L4	-6.79E+03	686.	101	1.31E+04	-63
NF	—	—	—	—	—
NS	2.15E+04	62.8	-120	2.24E+04	-69

Table C–334. Minimum and maximum of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.07	1.08	-1.07	1.08
A2	-39.1	7.75E+04	-132.	7.71E+04
FD	4.16E+03	4.47E+04	4.22E+03	4.46E+04
L1	-1.07E+04	-1.01E+04	-1.07E+04	-1.01E+04
L3	-1.15E+04	2.42E+04	-1.14E+04	2.42E+04
L4	-4.93E+04	5.19E+04	-4.27E+04	3.72E+04
NF	—	—	—	—
NS	-7.56E+03	4.37E+04	-3.53E+03	4.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-168. Time history of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

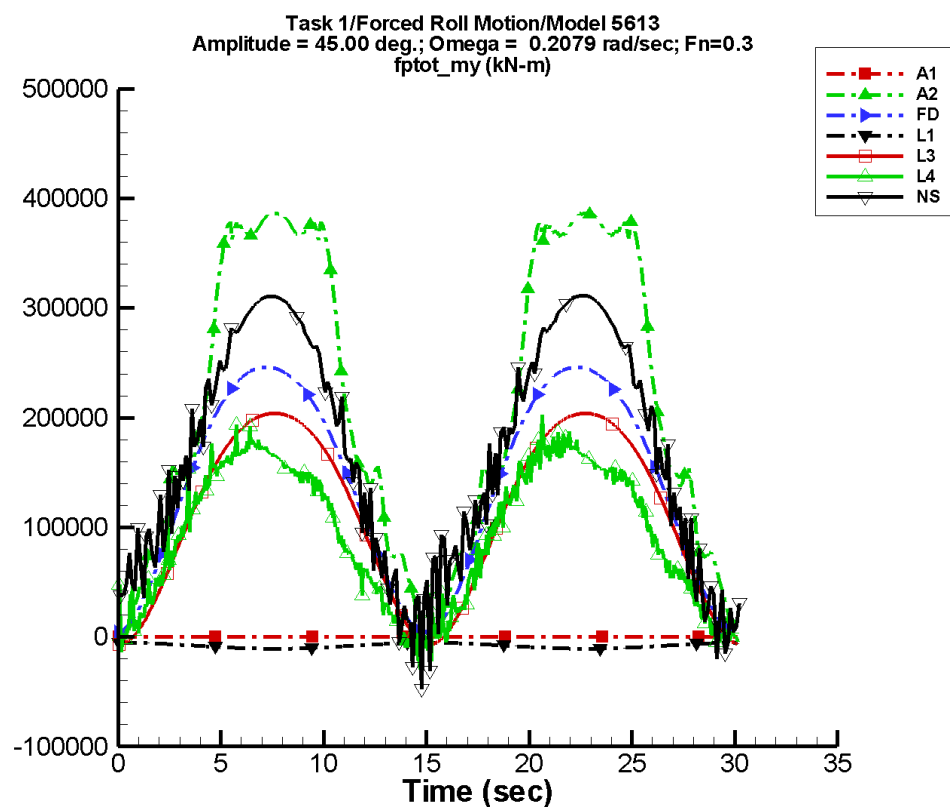
Table C–335. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.78E-04	2.16	102	1.19E-03	48
A2	1.01E+05	367.	-12	7.21E+04	-91
FD	7.49E+04	84.6	6	6.62E+04	-85
L1	-9.49E+03	0.488	88	1.21E+03	88
L3	5.29E+04	292.	-62	5.81E+04	-91
L4	3.51E+04	1.26E+03	90	4.92E+04	-76
NF	—	—	—	—	—
NS	7.79E+04	118.	-112	6.97E+04	-78

Table C–336. Minimum and maximum of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.15	2.16	-2.15	2.15
A2	-37.5	1.56E+05	430.	1.56E+05
FD	4.09E+03	1.38E+05	4.39E+03	1.37E+05
L1	-1.07E+04	-8.28E+03	-1.07E+04	-8.28E+03
L3	-9.64E+03	1.08E+05	-9.53E+03	1.08E+05
L4	-5.55E+04	1.03E+05	-2.92E+04	8.94E+04
NF	—	—	—	—
NS	-1.08E+04	1.46E+05	-4.66E+03	1.45E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-169. Time history of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

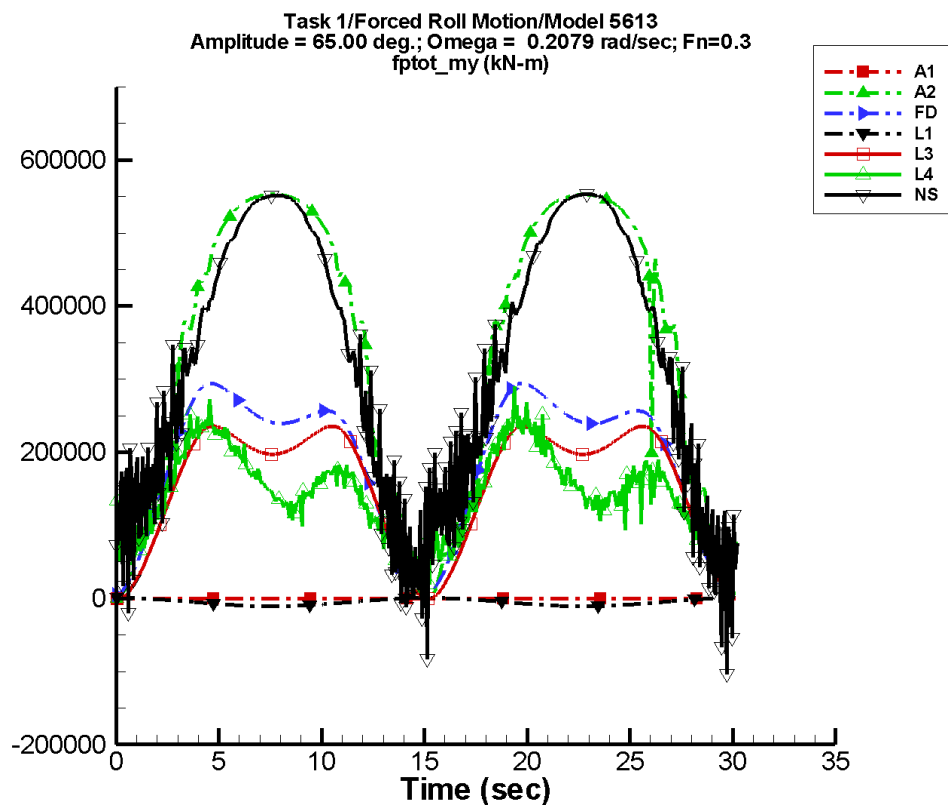
Table C–337. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-5.67E-04	3.24	102	1.79E-03	48
A2	2.13E+05	255.	7	1.92E+05	-92
FD	1.38E+05	284.	8	1.20E+05	-84
L1	-7.98E+03	0.881	90	2.72E+03	88
L3	1.11E+05	917.	-61	1.03E+05	-91
L4	9.37E+04	1.08E+03	105	8.61E+04	-77
NF	—	—	—	—	—
NS	1.70E+05	140.	-88	1.43E+05	-84

Table C–338. Minimum and maximum of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.22	3.23	-3.22	3.23
A2	-28.9	3.87E+05	452.	3.86E+05
FD	3.94E+03	2.46E+05	4.78E+03	2.46E+05
L1	-1.07E+04	-5.26E+03	-1.07E+04	-5.26E+03
L3	-6.62E+03	2.04E+05	-6.40E+03	2.04E+05
L4	-2.98E+04	2.03E+05	-1.13E+04	1.78E+05
NF	—	—	—	—
NS	-4.73E+04	3.12E+05	6.55E+03	3.11E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-170. Time history of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

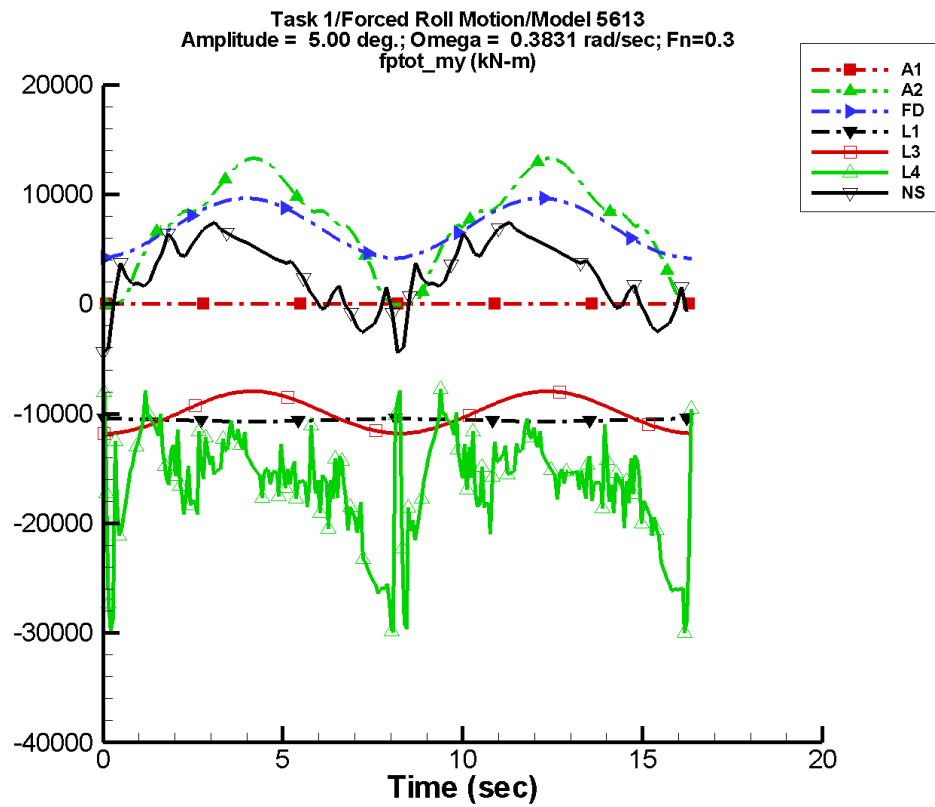
Table C–339. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-8.19E-04	4.68	102	2.58E-03	48
A2	3.39E+05	2.28E+03	-28	2.72E+05	-91
FD	1.85E+05	1.36E+03	10	1.21E+05	-77
L1	-5.02E+03	1.41	91	5.67E+03	88
L3	1.57E+05	4.15E+03	-60	9.40E+04	-91
L4	1.43E+05	1.27E+03	-36	5.81E+04	-56
NF	—	—	—	—	—
NS	3.26E+05	166.	-149	2.47E+05	-89

Table C–340. Minimum and maximum of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.66	4.67	-4.65	4.67
A2	13.1	5.53E+05	344.	5.53E+05
FD	3.65E+03	2.94E+05	5.46E+03	2.93E+05
L1	-1.07E+04	648.	-1.07E+04	641.
L3	-713.	2.36E+05	-268.	2.35E+05
L4	1.93E+04	2.90E+05	4.14E+04	2.48E+05
NF	—	—	—	—
NS	-1.08E+05	5.53E+05	3.32E+04	5.53E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-171. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

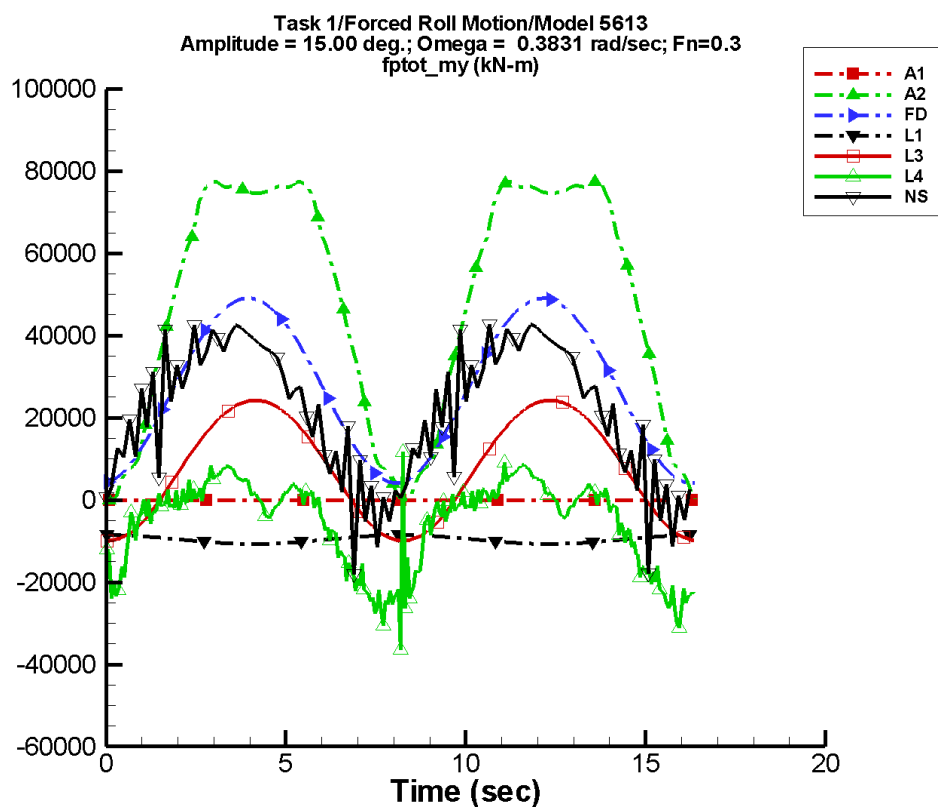
Table C–341. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	3.12E-04	0.727	88	1.54E-03	76
A2	7.33E+03	20.5	-48	5.59E+03	-94
FD	6.94E+03	0.289	-37	2.72E+03	-84
L1	-1.06E+04	0.162	132	119.	89
L3	-9.90E+03	5.55	-172	1.92E+03	-93
L4	-1.65E+04	148.	52	3.48E+03	-51
NF	—	—	—	—	—
NS	2.78E+03	42.7	174	3.98E+03	-54

Table C–342. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.725	0.730	-0.722	0.730
A2	-39.0	1.33E+04	-110.	1.32E+04
FD	4.16E+03	9.65E+03	4.23E+03	9.61E+03
L1	-1.07E+04	-1.05E+04	-1.07E+04	-1.05E+04
L3	-1.18E+04	-7.94E+03	-1.18E+04	-7.95E+03
L4	-3.36E+04	-7.64E+03	-2.66E+04	-1.02E+04
NF	—	—	—	—
NS	-4.43E+03	7.65E+03	-2.43E+03	6.72E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-172. Time history of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–343. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	9.37E-04	2.18	88	4.63E-03	76
A2	4.84E+04	107.	6	3.87E+04	-93
FD	2.71E+04	25.7	-59	2.24E+04	-84
L1	-9.63E+03	0.558	100	1.07E+03	89
L3	7.51E+03	32.9	-38	1.71E+04	-92
L4	-5.71E+03	334.	29	1.27E+04	-63
NF	—	—	—	—	—
NS	2.18E+04	199.	176	2.07E+04	-60

Table C–344. Minimum and maximum of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.17	2.19	-2.16	2.19
A2	-40.3	7.75E+04	644.	7.68E+04
FD	4.10E+03	4.90E+04	4.47E+03	4.87E+04
L1	-1.07E+04	-8.55E+03	-1.07E+04	-8.56E+03
L3	-9.90E+03	2.42E+04	-9.93E+03	2.41E+04
L4	-3.63E+04	1.17E+04	-2.64E+04	7.61E+03
NF	—	—	—	—
NS	-1.81E+04	4.35E+04	-1.82E+03	4.09E+04

TASK 1/ROLL MOTION/MODEL 5613

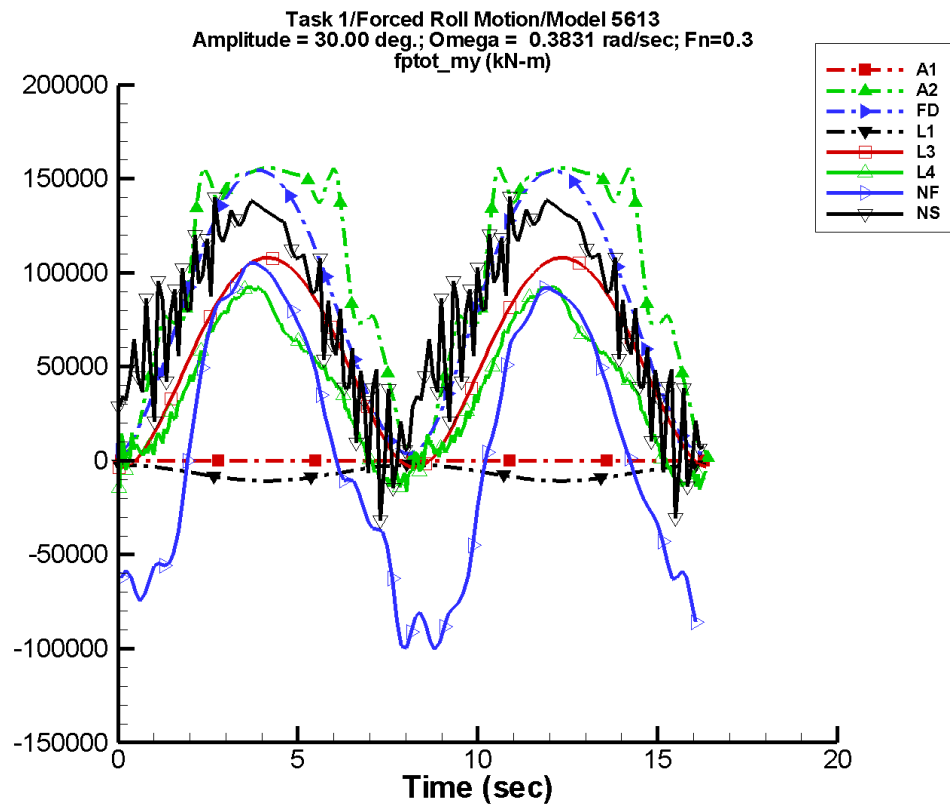


Figure C-173. Time history of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–345. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	1.87E-03	4.36	88	9.25E-03	76
A2	1.01E+05	242.	-20	7.20E+04	-93
FD	8.33E+04	172.	-58	7.45E+04	-83
L1	-6.42E+03	1.20	94	4.29E+03	89
L3	5.57E+04	273.	-34	5.52E+04	-92
L4	3.88E+04	162.	-21	4.76E+04	-79
NF	4.28E+03	7.44E+03	21	9.21E+04	-121
NS	7.79E+04	376.	177	5.88E+04	-69

Table C–346. Minimum and maximum of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.35	4.38	-4.33	4.38
A2	-42.3	1.56E+05	1.19E+03	1.56E+05
FD	3.76E+03	1.54E+05	5.21E+03	1.54E+05
L1	-1.07E+04	-2.12E+03	-1.07E+04	-2.13E+03
L3	-3.48E+03	1.08E+05	-3.55E+03	1.08E+05
L4	-1.60E+04	9.31E+04	-1.08E+04	9.19E+04
NF	-1.01E+05	1.05E+05	-9.20E+04	1.01E+05
NS	-3.16E+04	1.42E+05	7.57E+03	1.36E+05

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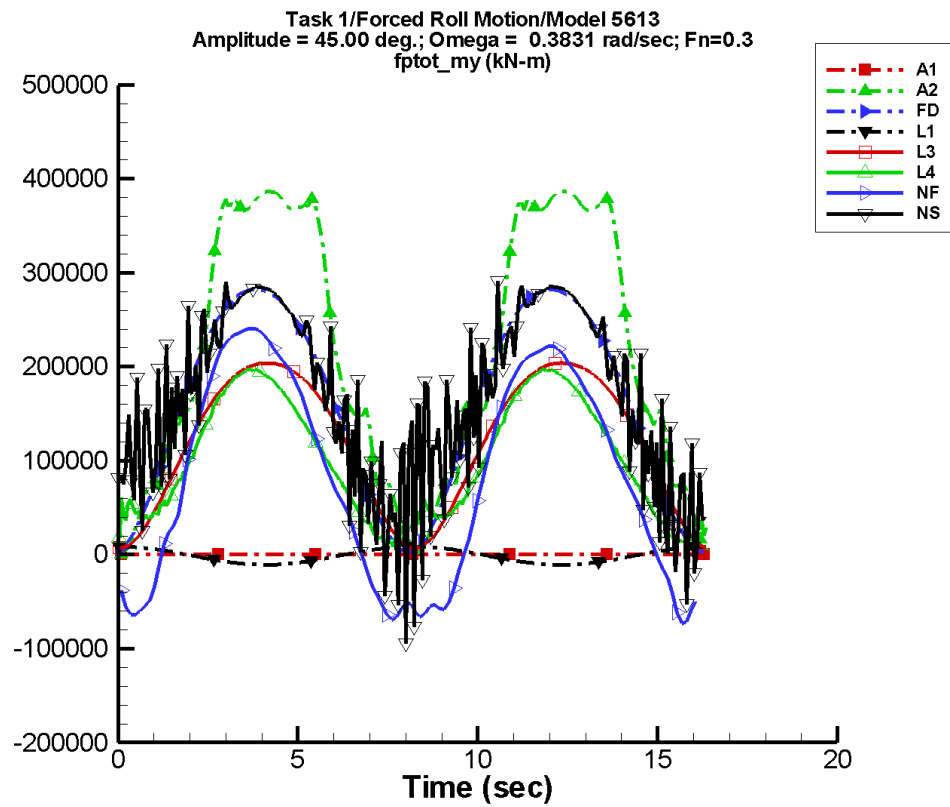


Figure C-174. Time history of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–347. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	2.81E-03	6.54	88	1.39E-02	76
A2	2.13E+05	96.8	-12	1.91E+05	-94
FD	1.56E+05	594.	-57	1.37E+05	-81
L1	-1.07E+03	1.95	93	9.66E+03	89
L3	1.18E+05	926.	-33	9.68E+04	-92
L4	1.01E+05	641.	144	8.62E+04	-79
NF	7.66E+04	4.58E+03	15	1.55E+05	-113
NS	1.69E+05	381.	-176	1.15E+05	-76

Table C–348. Minimum and maximum of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.52	6.57	-6.49	6.57
A2	-44.4	3.86E+05	4.09E+03	3.84E+05
FD	3.17E+03	2.82E+05	6.44E+03	2.81E+05
L1	-1.07E+04	8.59E+03	-1.07E+04	8.59E+03
L3	7.21E+03	2.04E+05	7.15E+03	2.04E+05
L4	8.28E+03	1.98E+05	1.46E+04	1.96E+05
NF	-9.13E+04	2.41E+05	-7.22E+04	2.37E+05
NS	-9.41E+04	2.93E+05	3.27E+04	2.85E+05

TASK 1/ROLL MOTION/MODEL 5613

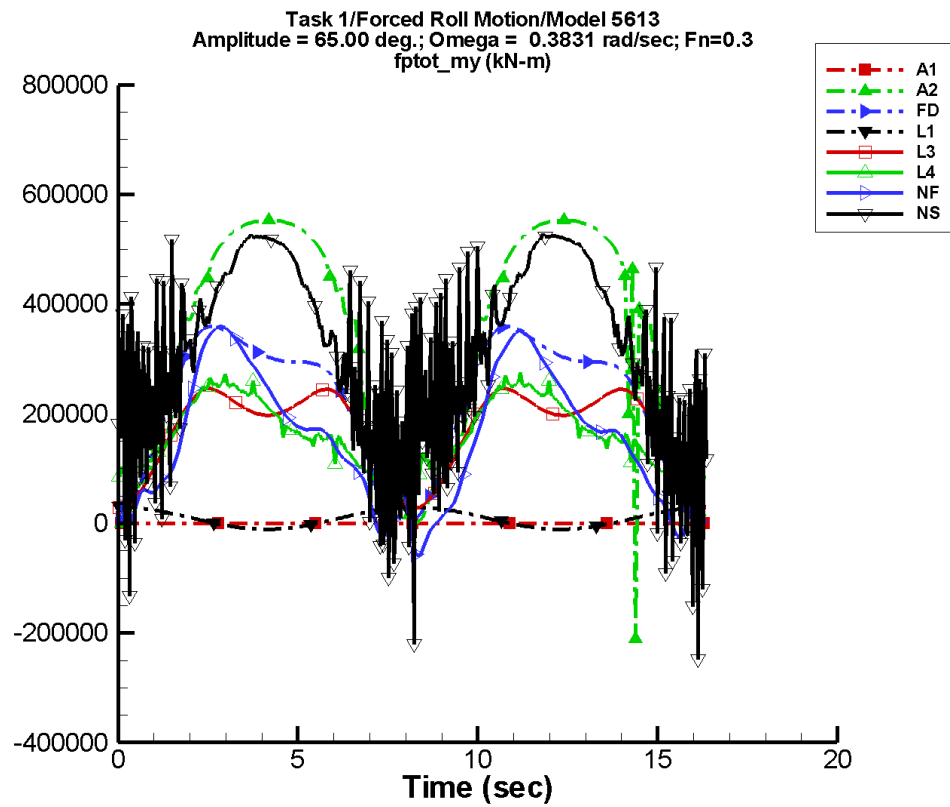


Figure C-175. Time history of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

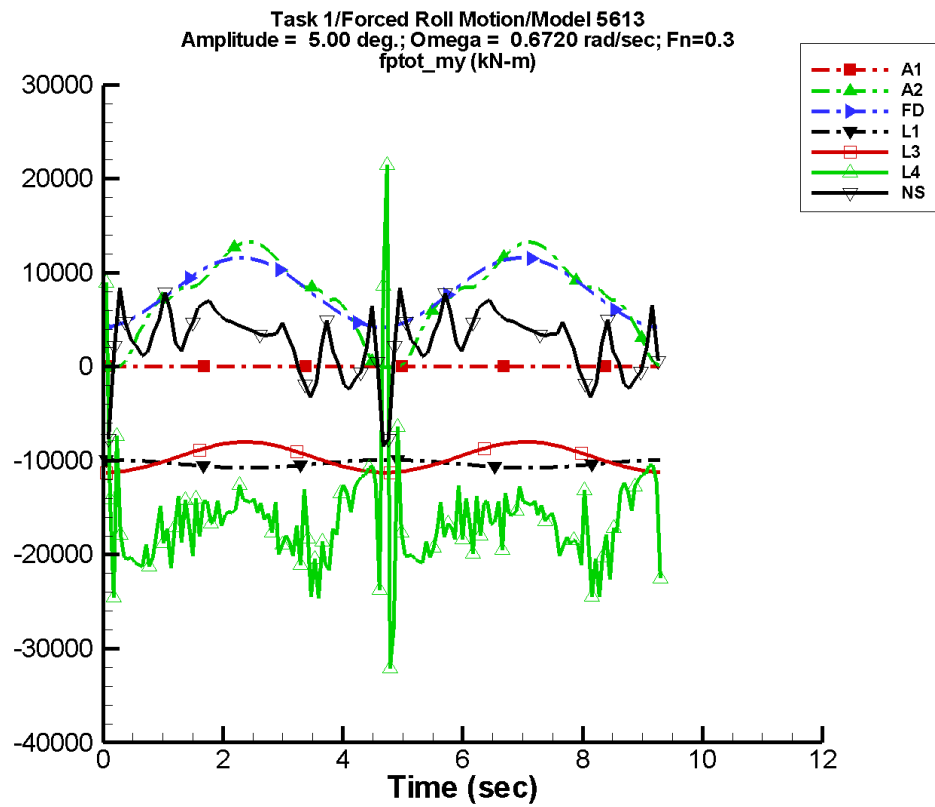
Table C–349. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	4.06E-03	9.45	88	2.00E-02	76
A2	3.34E+05	1.11E+04	-46	2.71E+05	-92
FD	2.20E+05	3.16E+03	-57	1.51E+05	-74
L1	9.39E+03	2.83	92	2.02E+04	89
L3	1.68E+05	4.60E+03	-33	8.19E+04	-89
L4	1.58E+05	1.64E+03	-36	8.53E+04	-57
NF	1.48E+05	4.94E+03	22	1.62E+05	-99
NS	3.22E+05	142.	-170	1.94E+05	-81

Table C–350. Minimum and maximum of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.42	9.49	-9.38	9.49
A2	-2.11E+05	5.53E+05	7.84E+03	5.54E+05
FD	2.00E+03	3.59E+05	8.73E+03	3.56E+05
L1	-1.08E+04	2.95E+04	-1.07E+04	2.95E+04
L3	2.81E+04	2.46E+05	2.84E+04	2.45E+05
L4	4.26E+04	2.75E+05	5.09E+04	2.57E+05
NF	-5.89E+04	3.59E+05	-1.37E+04	3.46E+05
NS	-2.51E+05	5.29E+05	8.12E+04	5.24E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-176. Time history of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

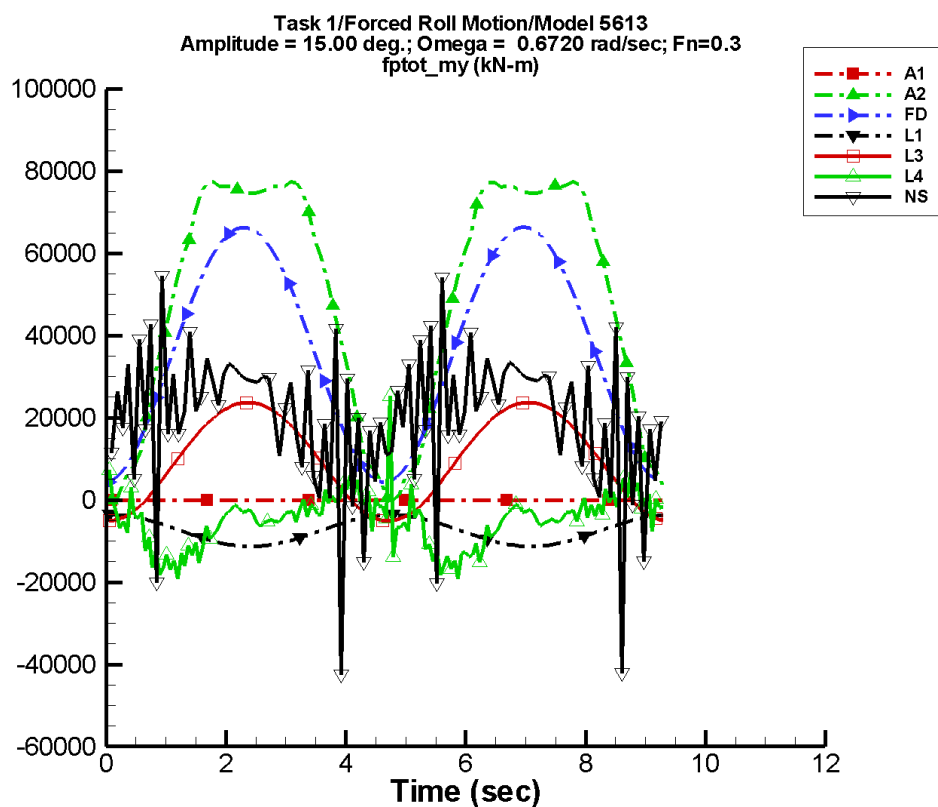
Table C–351. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.71E-04	1.23	73	4.68E-04	-4
A2	7.33E+03	29.2	-43	5.60E+03	-97
FD	7.92E+03	1.18	-30	3.68E+03	-87
L1	-1.03E+04	0.606	86	426.	84
L3	-9.66E+03	6.16	99	1.62E+03	-93
L4	-1.62E+04	135.	-77	583.	101
NF	—	—	—	—	—
NS	2.62E+03	43.0	162	2.92E+03	-46

Table C–352. Minimum and maximum of M_y^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.27	1.26	-1.22	1.22
A2	-39.4	1.33E+04	121.	1.28E+04
FD	4.16E+03	1.16E+04	4.32E+03	1.14E+04
L1	-1.08E+04	-9.91E+03	-1.08E+04	-9.91E+03
L3	-1.13E+04	-8.00E+03	-1.13E+04	-8.03E+03
L4	-3.21E+04	2.15E+04	-2.07E+04	-1.90E+03
NF	—	—	—	—
NS	-8.46E+03	8.59E+03	-4.49E+03	5.65E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-177. Time history of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Table C–353. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-5.12E-04	3.70	73	1.40E-03	-4
A2	4.87E+04	828.	-3	3.96E+04	-96
FD	3.58E+04	41.0	-29	3.10E+04	-87
L1	-7.47E+03	1.55	82	3.84E+03	84
L3	9.67E+03	18.6	145	1.44E+04	-93
L4	-4.92E+03	52.0	112	6.24E+03	166
NF	—	—	—	—	—
NS	2.05E+04	237.	164	1.09E+04	-47

Table C–354. Minimum and maximum of M_y^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.80	3.77	-3.65	3.65
A2	-41.4	7.75E+04	1.04E+03	7.64E+04
FD	4.15E+03	6.63E+04	5.32E+03	6.52E+04
L1	-1.13E+04	-3.63E+03	-1.12E+04	-3.63E+03
L3	-5.04E+03	2.37E+04	-5.01E+03	2.35E+04
L4	-1.92E+04	2.52E+04	-1.59E+04	2.53E+03
NF	—	—	—	—
NS	-4.25E+04	5.49E+04	5.89E+03	3.13E+04

TASK 1/ROLL MOTION/MODEL 5613

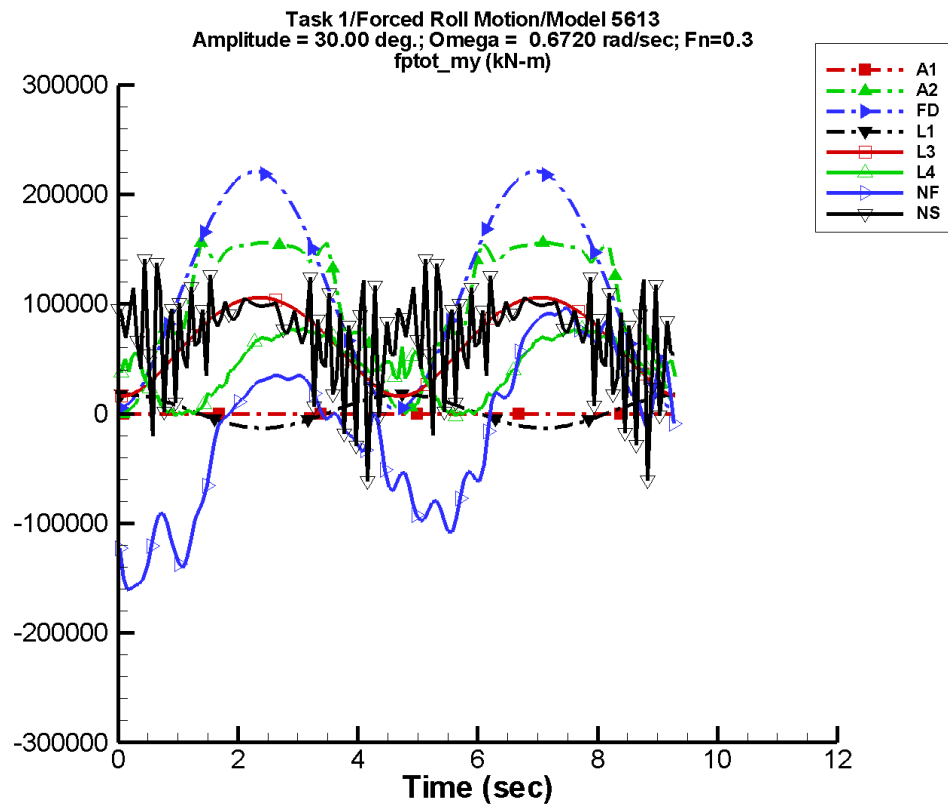


Figure C-178. Time history of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–355. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.02E-03	7.39	73	2.80E-03	-4
A2	1.02E+05	1.40E+03	-8	7.34E+04	-96
FD	1.17E+05	301.	-28	1.08E+05	-87
L1	2.20E+03	2.98	81	1.53E+04	84
L3	6.44E+04	98.9	166	4.44E+04	-92
L4	4.41E+04	483.	58	3.25E+04	-160
NF	3.30E+04	9.07E+03	-2	9.34E+04	-134
NS	7.32E+04	497.	164	2.04E+04	-60

Table C–356. Minimum and maximum of M_y^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.60	7.54	-7.31	7.30
A2	-44.0	1.56E+05	6.13E+03	1.54E+05
FD	4.07E+03	2.21E+05	8.80E+03	2.17E+05
L1	-1.31E+04	1.76E+04	-1.29E+04	1.76E+04
L3	1.59E+04	1.06E+05	1.62E+04	1.05E+05
L4	-2.55E+03	7.77E+04	413.	7.73E+04
NF	-1.08E+05	1.41E+05	-9.26E+04	1.37E+05
NS	-6.15E+04	1.43E+05	4.04E+04	1.03E+05

TASK 1/ROLL MOTION/MODEL 5613

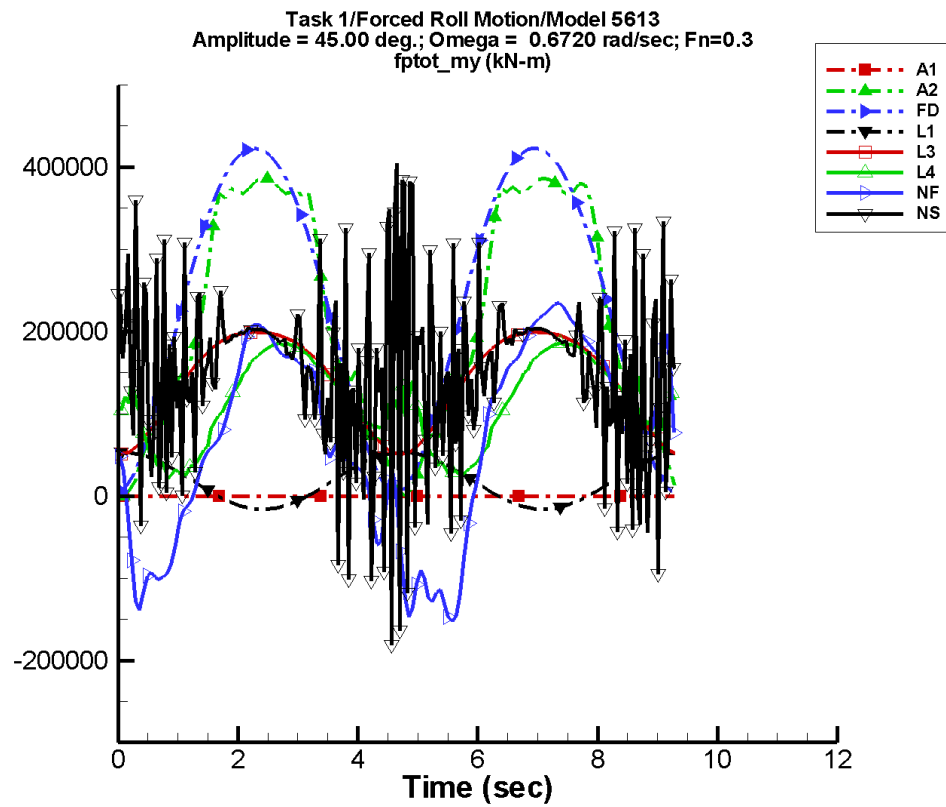


Figure C-179. Time history of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–357. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.54E-03	11.1	73	4.21E-03	-4
A2	2.13E+05	679.	0	1.93E+05	-98
FD	2.29E+05	1.08E+03	-28	2.08E+05	-86
L1	1.83E+04	4.33	81	3.45E+04	84
L3	1.37E+05	331.	170	7.26E+04	-90
L4	1.14E+05	1.03E+03	50	6.43E+04	-145
NF	9.92E+04	1.83E+04	52	1.62E+05	-127
NS	1.56E+05	475.	174	3.19E+04	-66

Table C–358. Minimum and maximum of M_y^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-11.4	11.3	-11.0	11.0
A2	-30.9	3.86E+05	9.40E+03	3.81E+05
FD	3.92E+03	4.23E+05	1.47E+04	4.16E+05
L1	-1.62E+04	5.29E+04	-1.57E+04	5.29E+04
L3	5.09E+04	1.99E+05	5.17E+04	1.99E+05
L4	2.12E+04	1.86E+05	2.87E+04	1.84E+05
NF	-1.52E+05	2.77E+05	-1.29E+05	2.70E+05
NS	-1.81E+05	4.07E+05	9.31E+04	2.27E+05

TASK 1/ROLL MOTION/MODEL 5613

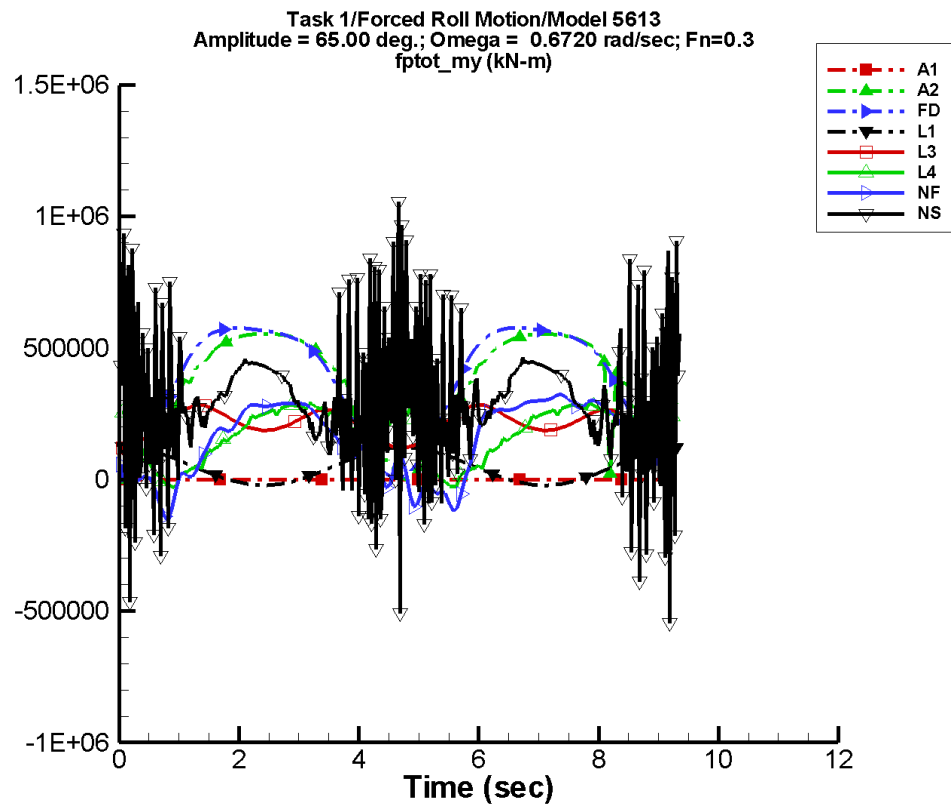


Figure C-180. Time history of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

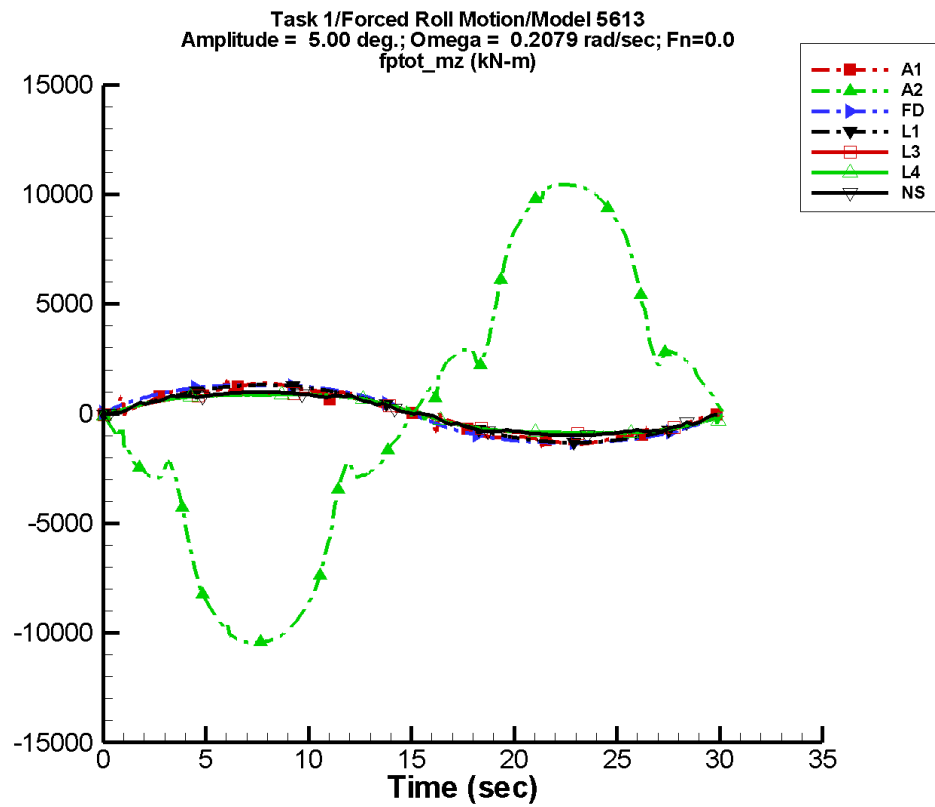
Table C–359. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.22E-03	16.0	73	6.08E-03	-4
A2	3.36E+05	1.20E+04	-33	2.74E+05	-95
FD	3.57E+05	5.15E+03	-28	2.80E+05	-83
L1	4.99E+04	6.27	81	7.21E+04	84
L3	2.08E+05	1.80E+03	168	3.42E+04	-69
L4	1.79E+05	769.	21	1.17E+05	-164
NF	1.87E+05	1.69E+04	-79	1.83E+05	-132
NS	3.02E+05	779.	173	4.93E+04	-69

Table C–360. Minimum and maximum of M_y^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-16.5	16.3	-15.8	15.8
A2	60.1	5.53E+05	1.36E+04	5.54E+05
FD	3.60E+03	5.75E+05	2.71E+04	5.72E+05
L1	-2.22E+04	1.22E+05	-2.10E+04	1.22E+05
L3	1.19E+05	2.83E+05	1.22E+05	2.77E+05
L4	-2.83E+04	2.92E+05	-6.37E+03	2.80E+05
NF	-2.85E+05	3.48E+05	-1.52E+05	3.38E+05
NS	-5.46E+05	1.06E+06	1.90E+05	5.06E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-181. Time history of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

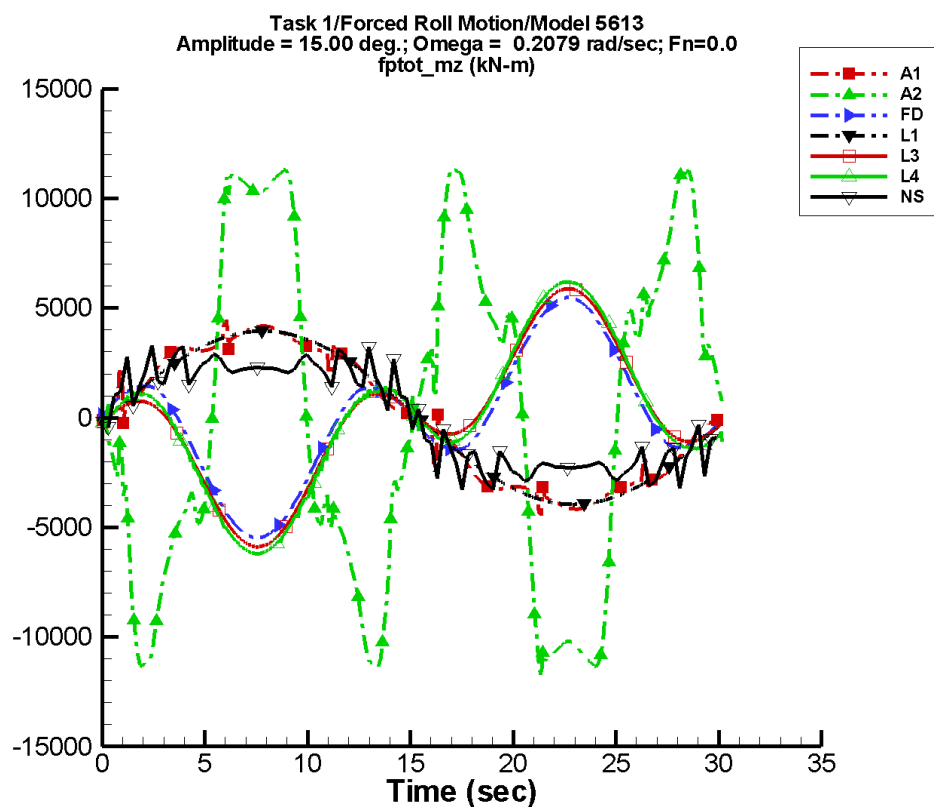
Table C–361. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.29	1.31E+03	0	1.17	12
A2	32.9	9.02E+03	179	276.	56
FD	4.53	1.42E+03	1	20.5	63
L1	-1.08E-03	1.32E+03	-3	2.84E-03	-95
L3	5.54	1.01E+03	-4	21.9	87
L4	5.19	976.	-4	27.8	77
NF	—	—	—	—	—
NS	-7.94E-03	1.03E+03	-2	2.87E-02	-28

Table C–362. Minimum and maximum of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.49E+03	1.49E+03	-1.38E+03	1.39E+03
A2	-1.05E+04	1.05E+04	-1.05E+04	1.05E+04
FD	-1.31E+03	1.31E+03	-1.31E+03	1.31E+03
L1	-1.32E+03	1.32E+03	-1.32E+03	1.32E+03
L3	-921.	921.	-921.	921.
L4	-874.	879.	-871.	871.
NF	—	—	—	—
NS	-993.	993.	-986.	986.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-182. Time history of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

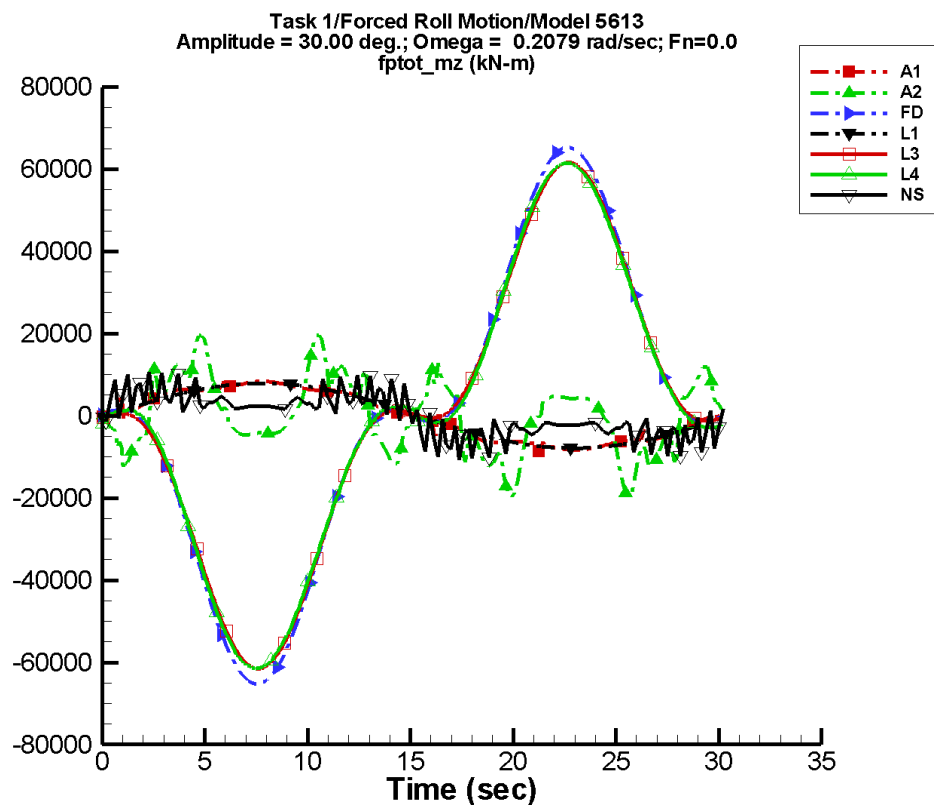
Table C–363. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.86	3.93E+03	0	3.49	12
A2	-256.	1.77E+03	-31	1.57E+03	-125
FD	80.4	2.93E+03	174	401.	58
L1	-6.38E-03	3.95E+03	-3	1.04E-02	-98
L3	146.	3.53E+03	-179	576.	87
L4	144.	3.67E+03	-179	626.	84
NF	—	—	—	—	—
NS	-2.99E-02	2.86E+03	0	7.49E-02	15

Table C–364. Minimum and maximum of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.46E+03	4.46E+03	-4.14E+03	4.15E+03
A2	-1.18E+04	1.19E+04	-1.13E+04	1.12E+04
FD	-5.48E+03	5.48E+03	-5.45E+03	5.45E+03
L1	-3.95E+03	3.95E+03	-3.95E+03	3.95E+03
L3	-5.88E+03	5.88E+03	-5.87E+03	5.87E+03
L4	-6.20E+03	6.20E+03	-6.19E+03	6.19E+03
NF	—	—	—	—
NS	-3.28E+03	3.28E+03	-2.45E+03	2.44E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-183. Time history of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

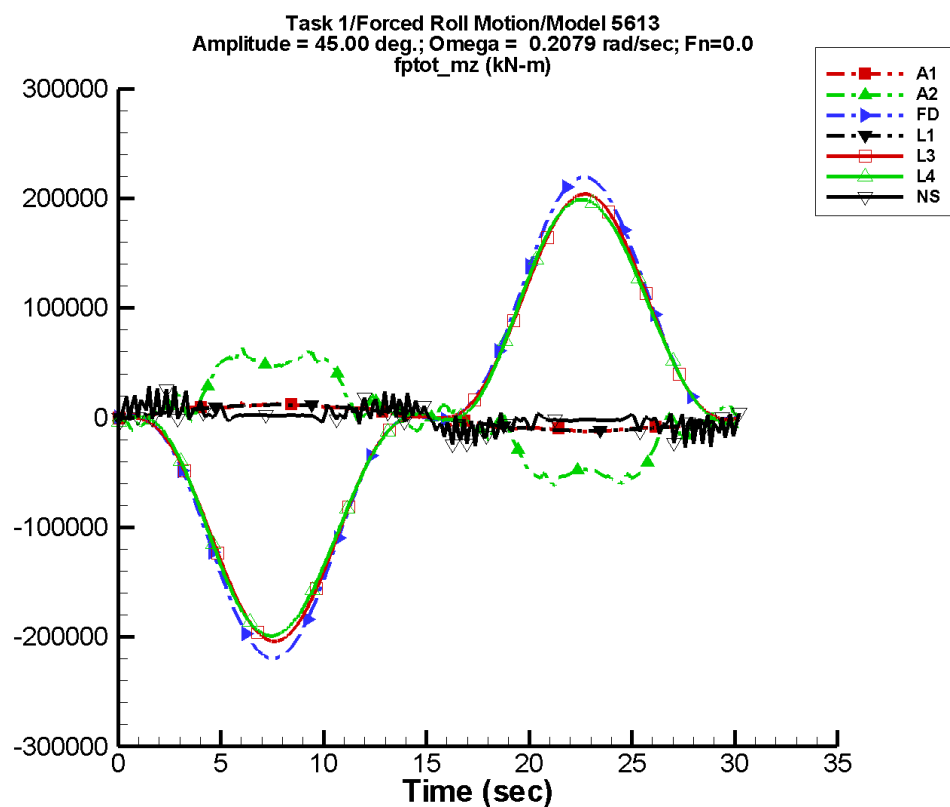
Table C–365. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-13.7	7.86E+03	0	6.99	12
A2	-161.	4.77E+03	-1	684.	-26
FD	552.	4.77E+04	178	2.73E+03	58
L1	-2.15E-02	7.91E+03	-3	3.22E-02	-94
L3	1.02E+03	4.52E+04	179	4.00E+03	87
L4	980.	4.50E+04	179	4.11E+03	87
NF	—	—	—	—	—
NS	-3.03E-02	4.85E+03	4	0.222	-25

Table C–366. Minimum and maximum of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.91E+03	8.92E+03	-8.28E+03	8.31E+03
A2	-1.97E+04	2.00E+04	-1.72E+04	1.74E+04
FD	-6.53E+04	6.53E+04	-6.51E+04	6.51E+04
L1	-7.91E+03	7.91E+03	-7.90E+03	7.90E+03
L3	-6.16E+04	6.16E+04	-6.15E+04	6.15E+04
L4	-6.15E+04	6.15E+04	-6.14E+04	6.14E+04
NF	—	—	—	—
NS	-1.07E+04	1.07E+04	-6.13E+03	6.17E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-184. Time history of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

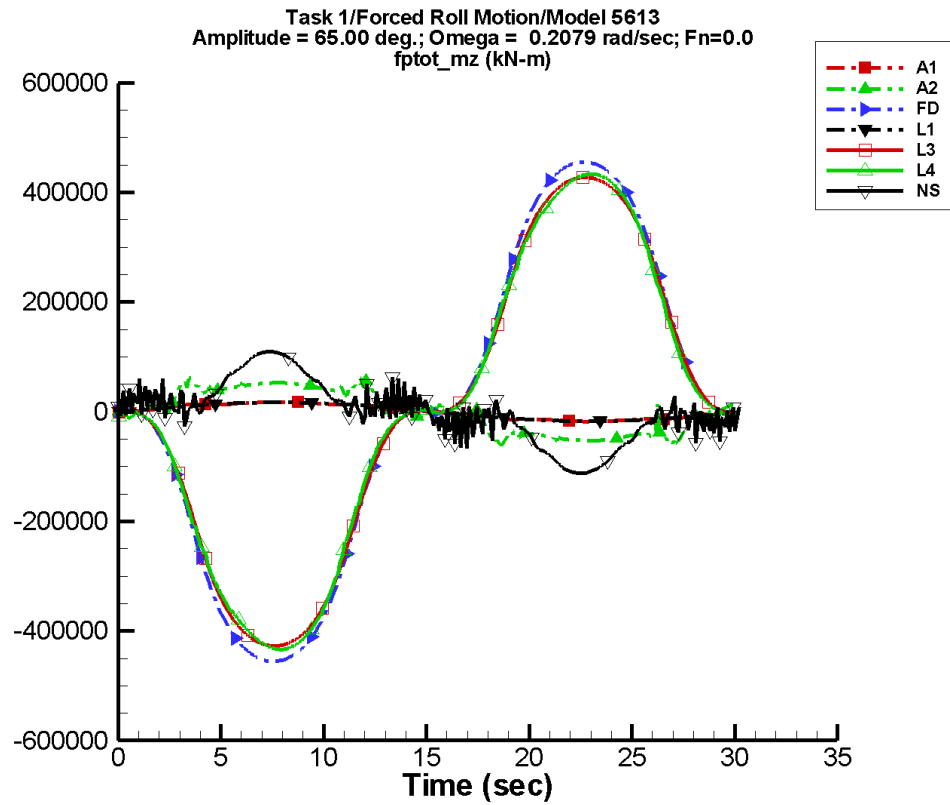
Table C–367. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-20.6	1.18E+04	0	10.5	12
A2	-510.	4.51E+04	-3	2.65E+03	-115
FD	1.70E+03	1.66E+05	178	8.45E+03	58
L1	-3.66E-02	1.19E+04	-3	6.14E-02	-93
L3	3.15E+03	1.54E+05	179	1.24E+04	87
L4	2.98E+03	1.51E+05	179	1.22E+04	88
NF	—	—	—	—	—
NS	10.9	5.99E+03	8	8.22	-36

Table C–368. Minimum and maximum of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.34E+04	1.34E+04	-1.24E+04	1.25E+04
A2	-6.12E+04	6.35E+04	-5.72E+04	5.73E+04
FD	-2.20E+05	2.20E+05	-2.19E+05	2.19E+05
L1	-1.19E+04	1.19E+04	-1.19E+04	1.19E+04
L3	-2.04E+05	2.04E+05	-2.04E+05	2.04E+05
L4	-1.99E+05	1.99E+05	-1.99E+05	1.99E+05
NF	—	—	—	—
NS	-2.73E+04	2.88E+04	-1.25E+04	1.27E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-185. Time history of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

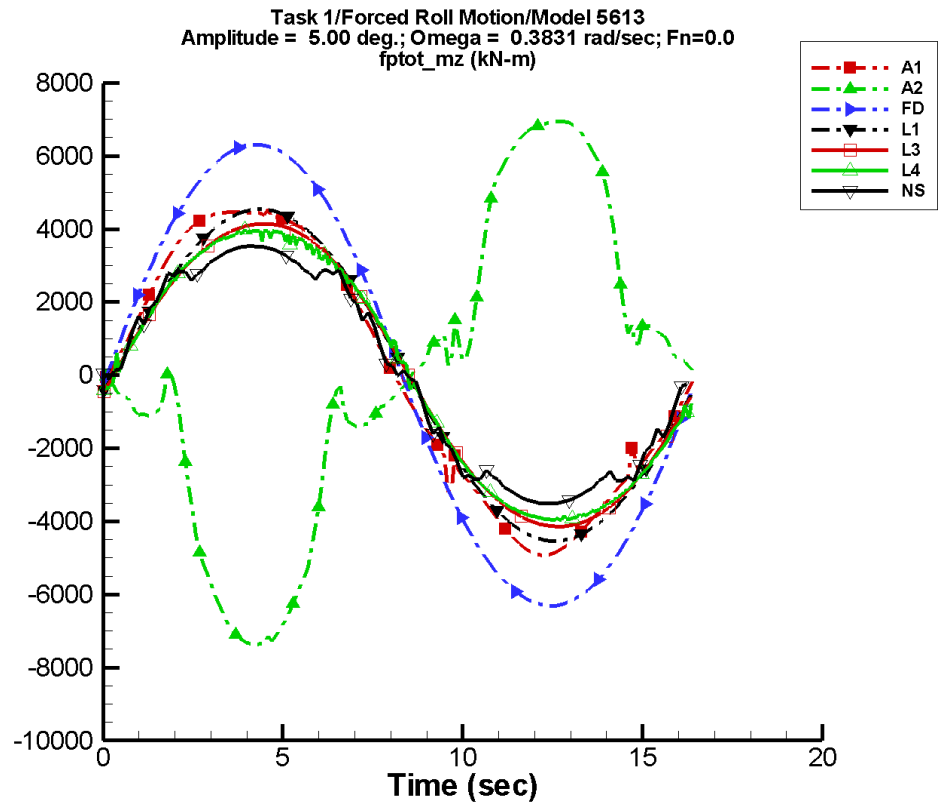
Table C–369. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-29.8	1.70E+04	0	15.1	12
A2	-186.	5.18E+04	-1	877.	-97
FD	3.25E+03	3.94E+05	178	1.55E+04	65
L1	-8.45E-02	1.71E+04	-3	0.126	-96
L3	5.87E+03	3.68E+05	179	2.26E+04	86
L4	5.83E+03	3.66E+05	179	2.35E+04	86
NF	—	—	—	—	—
NS	-561.	6.60E+04	2	872.	92

Table C–370. Minimum and maximum of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.93E+04	1.93E+04	-1.79E+04	1.80E+04
A2	-6.24E+04	6.31E+04	-5.49E+04	5.56E+04
FD	-4.56E+05	4.56E+05	-4.55E+05	4.55E+05
L1	-1.71E+04	1.71E+04	-1.71E+04	1.71E+04
L3	-4.27E+05	4.27E+05	-4.27E+05	4.27E+05
L4	-4.34E+05	4.34E+05	-4.33E+05	4.34E+05
NF	—	—	—	—
NS	-1.13E+05	1.09E+05	-1.12E+05	1.09E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-186. Time history of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

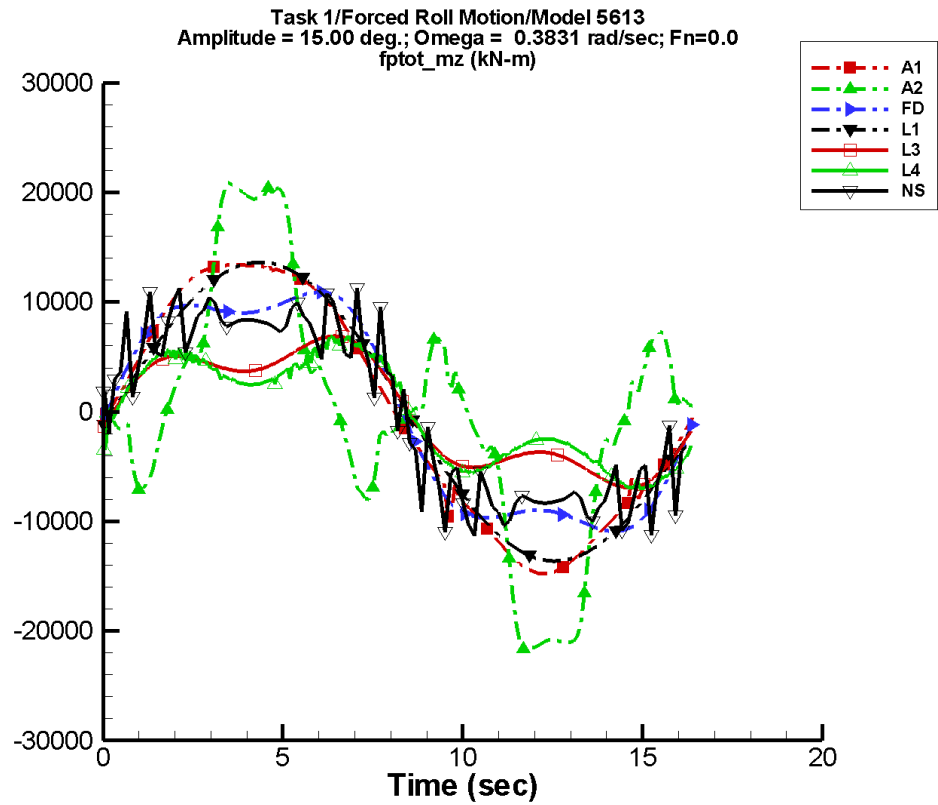
Table C–371. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-11.0	4.65E+03	0	21.3	0
A2	21.2	5.70E+03	174	291.	48
FD	4.37	6.42E+03	-3	27.8	76
L1	-5.77E-02	4.54E+03	-6	0.123	-18
L3	7.57	4.22E+03	-7	13.3	149
L4	3.61	4.10E+03	-6	12.0	83
NF	—	—	—	—	—
NS	5.52E-02	3.62E+03	-3	0.451	174

Table C–372. Minimum and maximum of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.93E+03	4.74E+03	-4.89E+03	4.49E+03
A2	-7.37E+03	6.95E+03	-7.34E+03	6.92E+03
FD	-6.31E+03	6.31E+03	-6.29E+03	6.29E+03
L1	-4.54E+03	4.54E+03	-4.53E+03	4.54E+03
L3	-4.14E+03	4.14E+03	-4.14E+03	4.14E+03
L4	-3.96E+03	3.99E+03	-3.94E+03	3.94E+03
NF	—	—	—	—
NS	-3.52E+03	3.53E+03	-3.49E+03	3.50E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-187. Time history of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

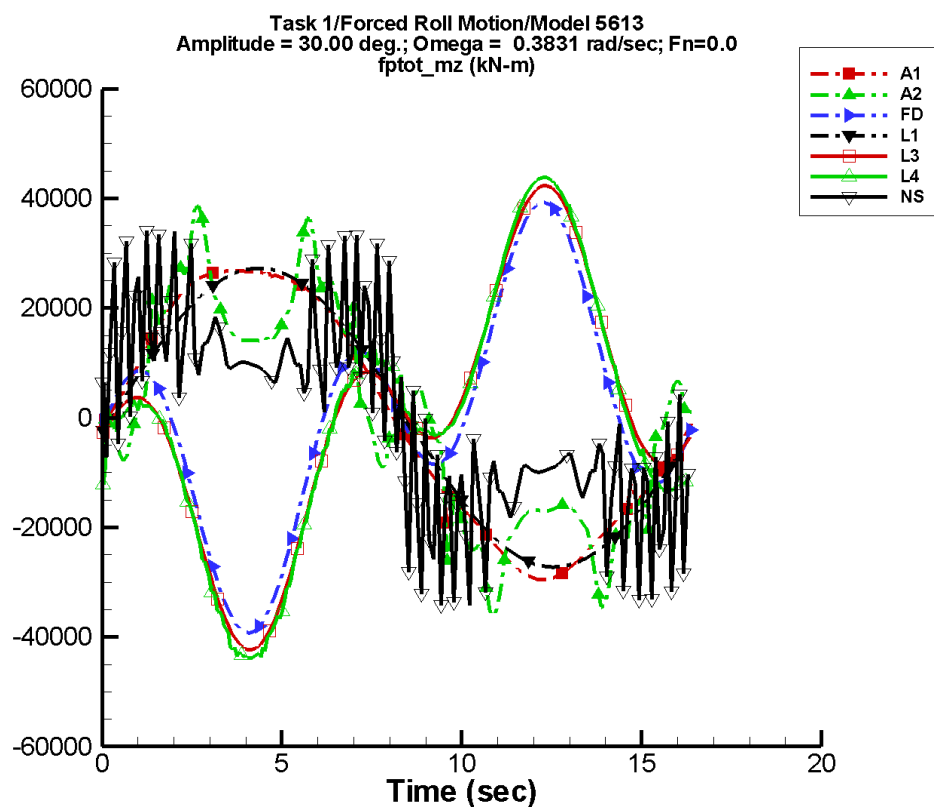
Table C–373. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-33.1	1.39E+04	0	63.9	0
A2	-253.	1.16E+04	-4	1.59E+03	-124
FD	82.7	1.17E+04	-4	567.	75
L1	-0.184	1.36E+04	-6	0.373	-20
L3	199.	5.95E+03	-10	350.	148
L4	161.	5.22E+03	-10	311.	141
NF	—	—	—	—	—
NS	0.199	1.01E+04	-1	1.35	-130

Table C–374. Minimum and maximum of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.48E+04	1.42E+04	-1.47E+04	1.35E+04
A2	-2.17E+04	2.17E+04	-2.15E+04	2.04E+04
FD	-1.09E+04	1.09E+04	-1.08E+04	1.08E+04
L1	-1.36E+04	1.36E+04	-1.36E+04	1.36E+04
L3	-6.91E+03	6.90E+03	-6.88E+03	6.87E+03
L4	-7.02E+03	7.05E+03	-6.85E+03	6.66E+03
NF	—	—	—	—
NS	-1.13E+04	1.13E+04	-8.78E+03	8.80E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-188. Time history of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

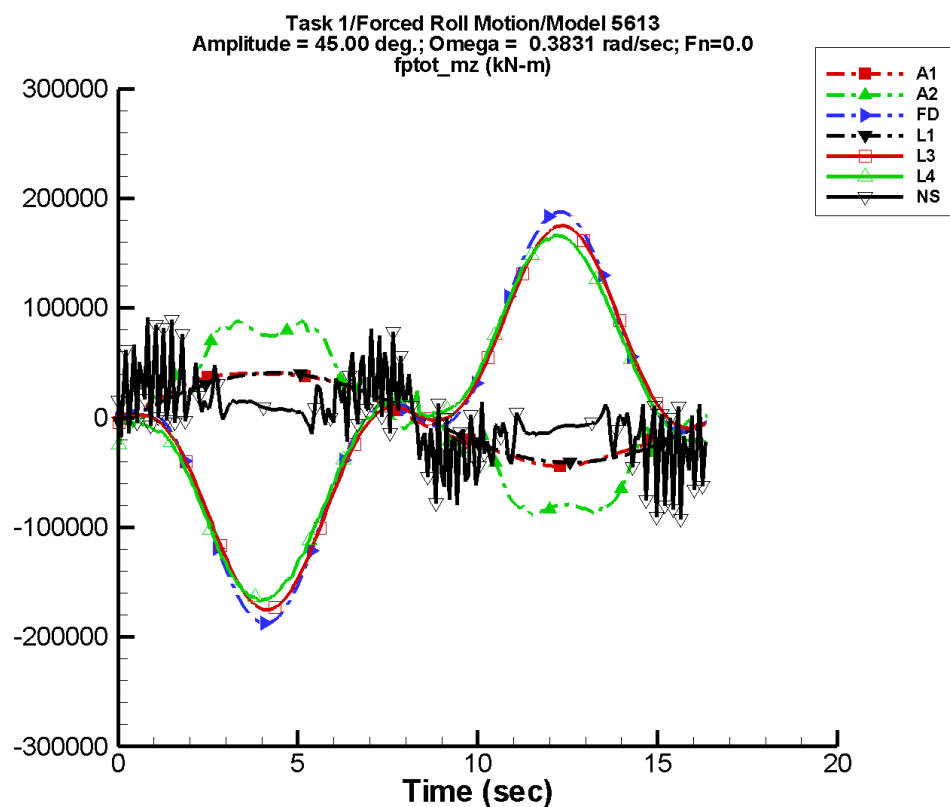
Table C–375. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-66.2	2.79E+04	0	128.	0
A2	-247.	2.47E+04	0	782.	-18
FD	576.	2.10E+04	-179	3.89E+03	76
L1	-0.402	2.72E+04	-6	0.759	-22
L3	1.39E+03	2.74E+04	179	2.44E+03	148
L4	1.17E+03	2.80E+04	-178	2.36E+03	147
NF	—	—	—	—	—
NS	0.697	1.73E+04	2	7.43	-94

Table C–376. Minimum and maximum of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.96E+04	2.85E+04	-2.93E+04	2.70E+04
A2	-3.62E+04	3.86E+04	-3.02E+04	3.26E+04
FD	-3.93E+04	3.93E+04	-3.86E+04	3.86E+04
L1	-2.72E+04	2.72E+04	-2.72E+04	2.72E+04
L3	-4.24E+04	4.23E+04	-4.21E+04	4.21E+04
L4	-4.40E+04	4.39E+04	-4.37E+04	4.36E+04
NF	—	—	—	—
NS	-3.42E+04	3.41E+04	-1.95E+04	1.94E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-189. Time history of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

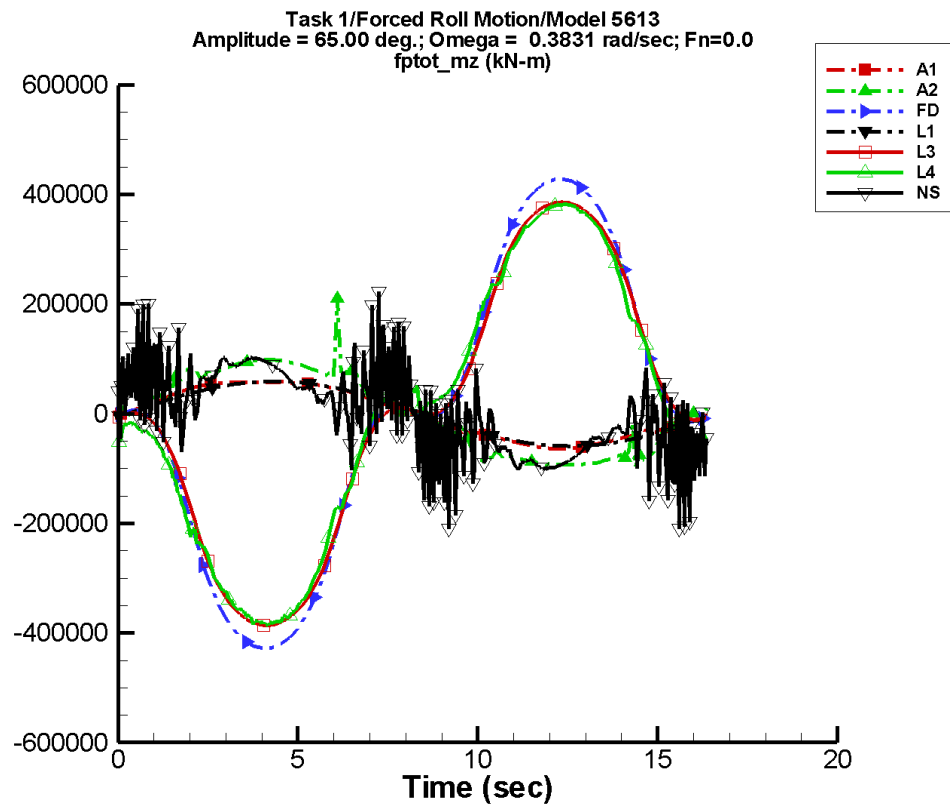
Table C–377. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-99.2	4.18E+04	0	192.	0
A2	-576.	7.51E+04	-2	2.57E+03	-113
FD	1.79E+03	1.32E+05	179	1.21E+04	76
L1	-0.645	4.09E+04	-6	1.14	-25
L3	4.30E+03	1.29E+05	177	7.55E+03	148
L4	3.38E+03	1.24E+05	-178	6.85E+03	151
NF	—	—	—	—	—
NS	18.6	2.13E+04	7	23.5	1

Table C–378. Minimum and maximum of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.43E+04	4.27E+04	-4.40E+04	4.04E+04
A2	-8.94E+04	9.01E+04	-8.57E+04	8.48E+04
FD	-1.88E+05	1.88E+05	-1.85E+05	1.85E+05
L1	-4.09E+04	4.09E+04	-4.08E+04	4.08E+04
L3	-1.75E+05	1.75E+05	-1.74E+05	1.74E+05
L4	-1.68E+05	1.66E+05	-1.66E+05	1.65E+05
NF	—	—	—	—
NS	-9.24E+04	9.16E+04	-3.71E+04	3.76E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-190. Time history of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

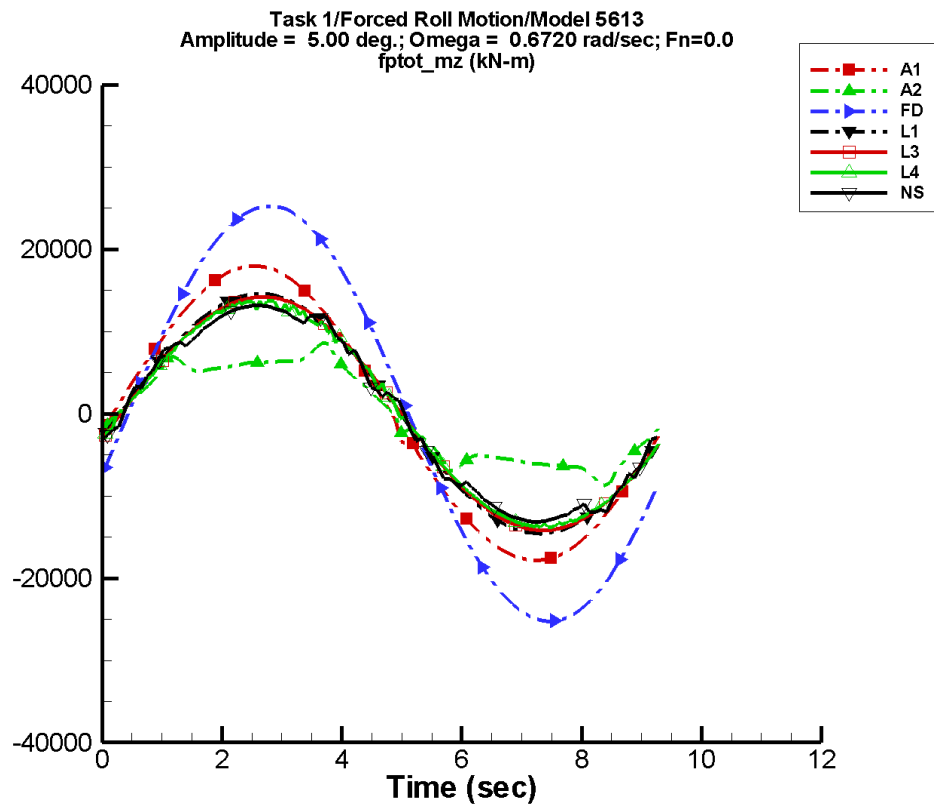
Table C–379. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-143.	6.04E+04	0	277.	0
A2	752.	9.64E+04	-1	2.04E+03	-160
FD	2.99E+03	3.60E+05	179	2.17E+04	73
L1	-1.04	5.90E+04	-6	1.70	-29
L3	7.36E+03	3.33E+05	177	1.35E+04	140
L4	5.76E+03	3.28E+05	-178	1.27E+04	142
NF	—	—	—	—	—
NS	227.	7.62E+04	6	139.	-122

Table C–380. Minimum and maximum of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.40E+04	6.17E+04	-6.35E+04	5.84E+04
A2	-9.75E+04	2.11E+05	-9.61E+04	9.77E+04
FD	-4.28E+05	4.28E+05	-4.26E+05	4.26E+05
L1	-5.90E+04	5.90E+04	-5.90E+04	5.90E+04
L3	-3.86E+05	3.86E+05	-3.85E+05	3.85E+05
L4	-3.85E+05	3.82E+05	-3.82E+05	3.81E+05
NF	—	—	—	—
NS	-2.10E+05	2.23E+05	-9.98E+04	1.01E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-191. Time history of $M_{\tilde{z}}^{\text{ptot}}$ for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

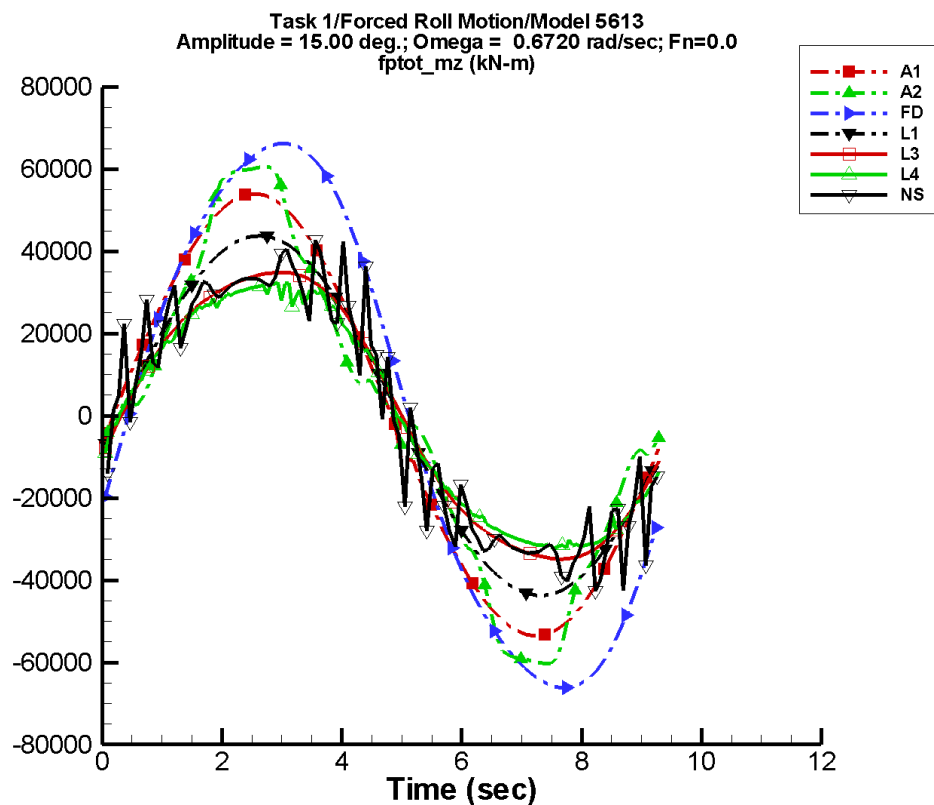
Table C–381. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-22.8	1.78E+04	-7	62.6	-77
A2	62.0	7.54E+03	-9	203.	7
FD	11.7	2.53E+04	-17	22.5	139
L1	-0.223	1.46E+04	-11	0.635	-19
L3	-0.439	1.43E+04	-13	19.5	53
L4	-55.5	1.38E+04	-12	159.	-1
NF	—	—	—	—	—
NS	-0.853	1.34E+04	-12	4.06	126

Table C–382. Minimum and maximum of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.79E+04	1.80E+04	-1.76E+04	1.78E+04
A2	-8.78E+03	8.62E+03	-7.47E+03	7.36E+03
FD	-2.53E+04	2.53E+04	-2.50E+04	2.50E+04
L1	-1.46E+04	1.46E+04	-1.45E+04	1.45E+04
L3	-1.42E+04	1.42E+04	-1.41E+04	1.41E+04
L4	-1.38E+04	1.38E+04	-1.36E+04	1.35E+04
NF	—	—	—	—
NS	-1.31E+04	1.32E+04	-1.30E+04	1.30E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-192. Time history of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

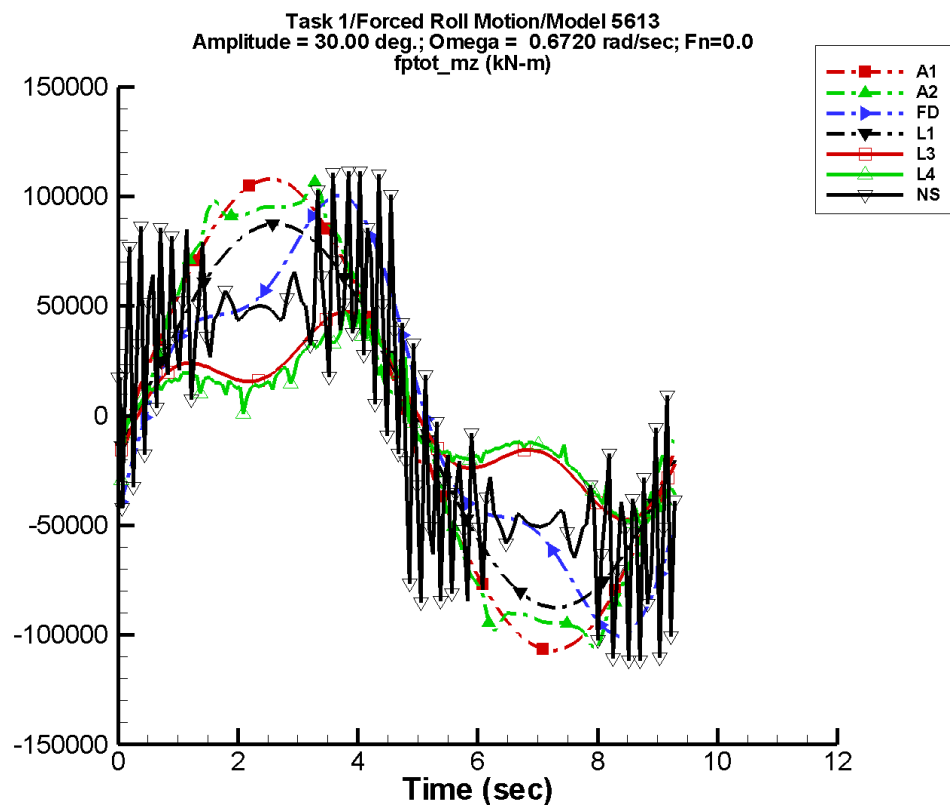
Table C–383. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-68.4	5.33E+04	-7	188.	-77
A2	-639.	5.03E+04	-8	1.21E+03	-148
FD	242.	6.73E+04	-19	464.	142
L1	-0.704	4.37E+04	-11	1.89	-21
L3	-2.57	3.62E+04	-14	506.	55
L4	-349.	3.34E+04	-14	936.	5
NF	—	—	—	—	—
NS	-3.39	3.77E+04	-12	37.8	112

Table C–384. Minimum and maximum of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.35E+04	5.39E+04	-5.29E+04	5.32E+04
A2	-6.03E+04	6.06E+04	-5.99E+04	6.03E+04
FD	-6.62E+04	6.63E+04	-6.56E+04	6.56E+04
L1	-4.37E+04	4.37E+04	-4.36E+04	4.36E+04
L3	-3.49E+04	3.49E+04	-3.47E+04	3.50E+04
L4	-3.23E+04	3.25E+04	-3.17E+04	3.13E+04
NF	—	—	—	—
NS	-4.26E+04	4.26E+04	-3.47E+04	3.49E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-193. Time history of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

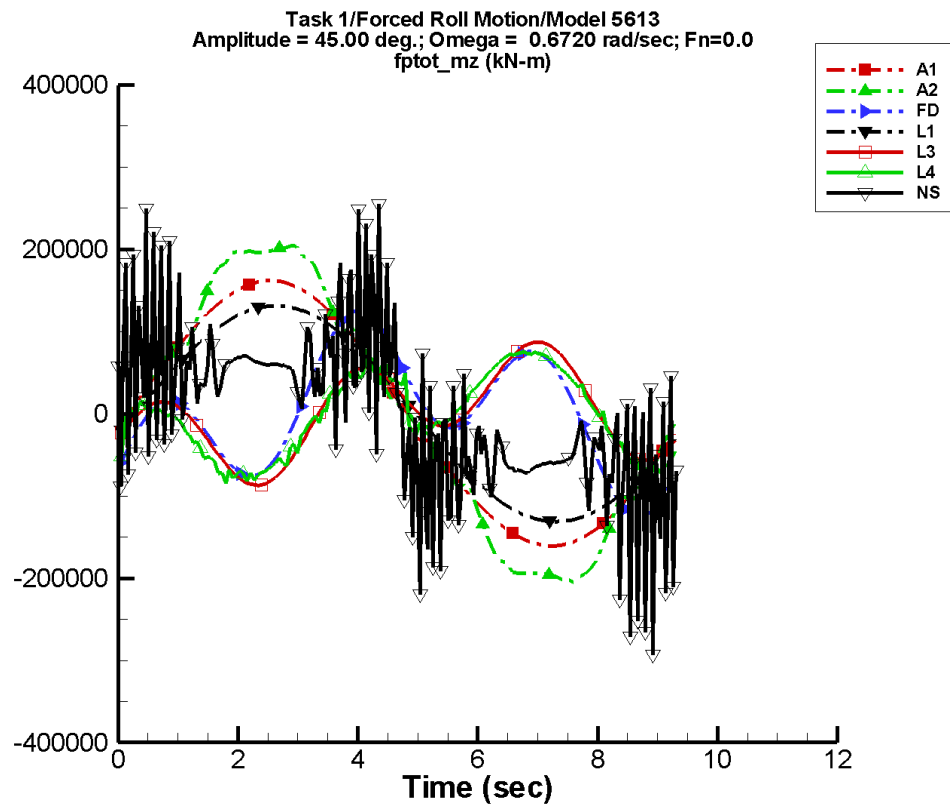
Table C–385. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-137.	1.07E+05	-7	376.	-77
A2	35.7	1.04E+05	-7	1.54E+03	-63
FD	1.69E+03	8.45E+04	-28	3.25E+03	142
L1	-1.55	8.75E+04	-11	3.78	-23
L3	-8.65	3.47E+04	-25	3.52E+03	55
L4	-1.13E+03	3.04E+04	-29	3.45E+03	40
NF	—	—	—	—	—
NS	-10.5	6.57E+04	-11	150.	96

Table C–386. Minimum and maximum of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.07E+05	1.08E+05	-1.06E+05	1.06E+05
A2	-1.06E+05	1.07E+05	-9.83E+04	9.84E+04
FD	-1.01E+05	1.01E+05	-9.77E+04	9.76E+04
L1	-8.75E+04	8.75E+04	-8.71E+04	8.71E+04
L3	-4.75E+04	4.74E+04	-4.68E+04	4.68E+04
L4	-4.90E+04	4.84E+04	-4.73E+04	4.18E+04
NF	—	—	—	—
NS	-1.12E+05	1.12E+05	-6.55E+04	6.50E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-194. Time history of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

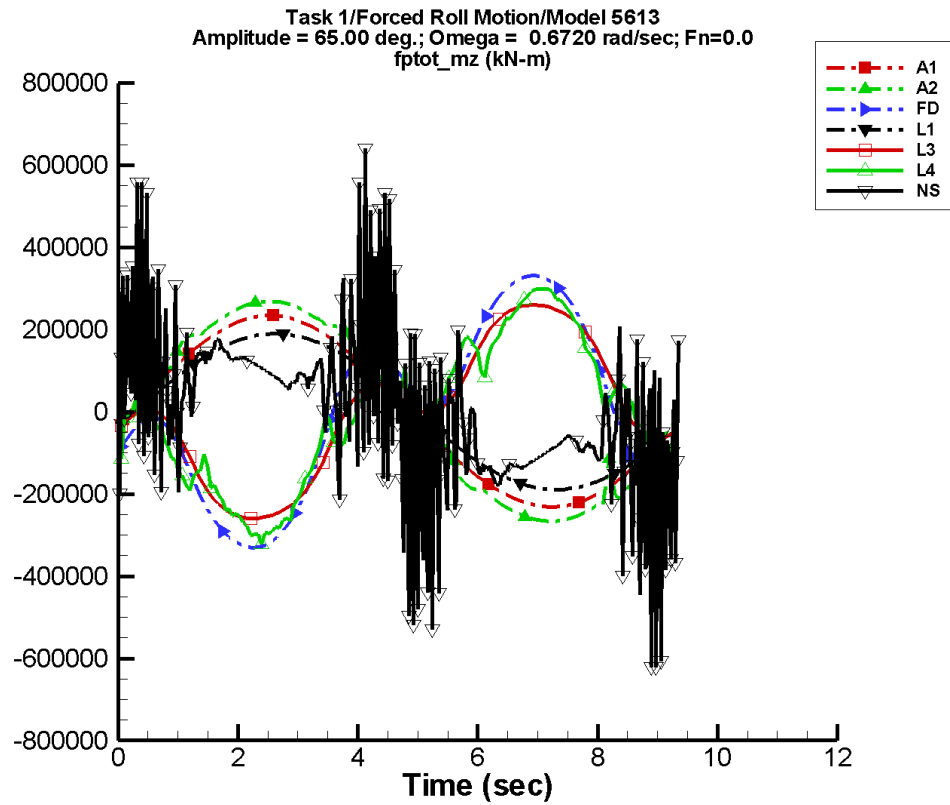
Table C–387. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-205.	1.60E+05	-7	563.	-77
A2	-909.	1.92E+05	-7	2.49E+03	-121
FD	5.27E+03	5.31E+04	-100	1.02E+04	141
L1	-2.49	1.31E+05	-11	5.66	-25
L3	-18.7	4.35E+04	-159	1.09E+04	55
L4	-2.26E+03	4.63E+04	-150	8.39E+03	59
NF	—	—	—	—	—
NS	25.1	8.33E+04	-9	267.	72

Table C–388. Minimum and maximum of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.61E+05	1.62E+05	-1.59E+05	1.60E+05
A2	-2.05E+05	2.04E+05	-1.99E+05	2.00E+05
FD	-1.25E+05	1.25E+05	-1.17E+05	1.17E+05
L1	-1.31E+05	1.31E+05	-1.31E+05	1.31E+05
L3	-8.71E+04	8.71E+04	-8.53E+04	8.52E+04
L4	-8.48E+04	7.50E+04	-7.70E+04	7.37E+04
NF	—	—	—	—
NS	-2.93E+05	2.55E+05	-1.14E+05	1.12E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-195. Time history of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

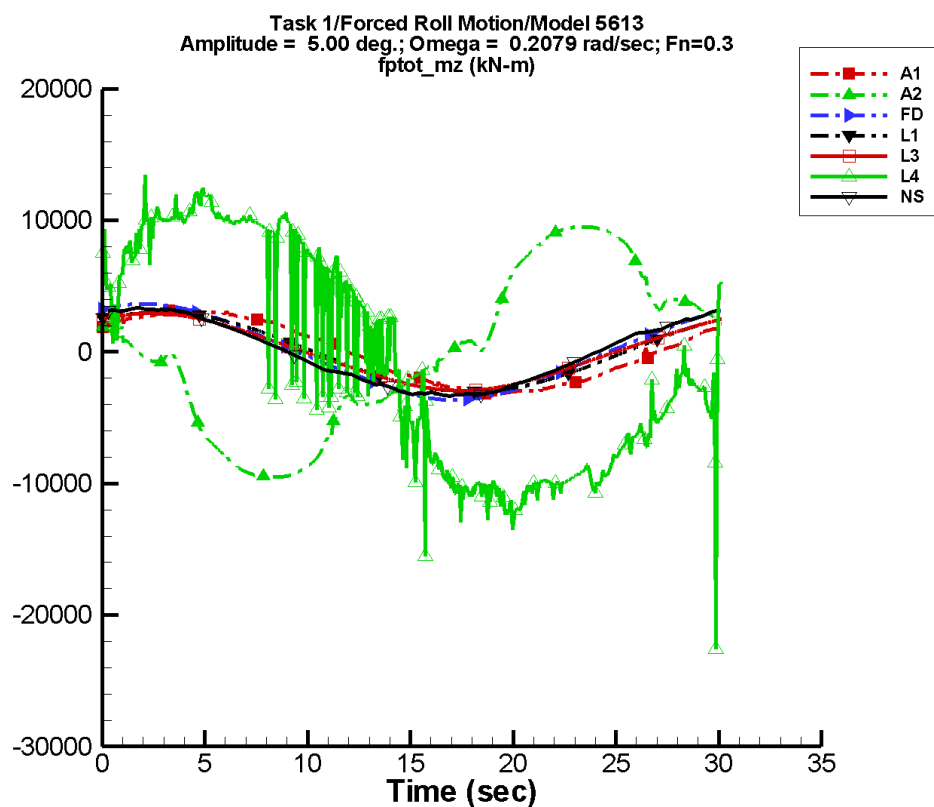
Table C–389. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-297.	2.31E+05	-7	814.	-77
A2	490.	2.65E+05	-6	2.29E+03	-128
FD	9.84E+03	2.42E+05	-165	2.02E+04	134
L1	-3.95	1.90E+05	-11	8.28	-28
L3	788.	2.05E+05	-176	1.87E+04	58
L4	-4.63E+03	2.16E+05	-173	1.79E+04	55
NF	—	—	—	—	—
NS	83.5	1.33E+05	-2	172.	65

Table C–390. Minimum and maximum of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.32E+05	2.34E+05	-2.29E+05	2.31E+05
A2	-2.67E+05	2.68E+05	-2.64E+05	2.65E+05
FD	-3.31E+05	3.31E+05	-3.23E+05	3.23E+05
L1	-1.90E+05	1.90E+05	-1.89E+05	1.89E+05
L3	-2.59E+05	2.59E+05	-2.58E+05	2.58E+05
L4	-3.22E+05	2.99E+05	-2.98E+05	2.93E+05
NF	—	—	—	—
NS	-6.22E+05	6.40E+05	-2.04E+05	2.06E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-196. Time history of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

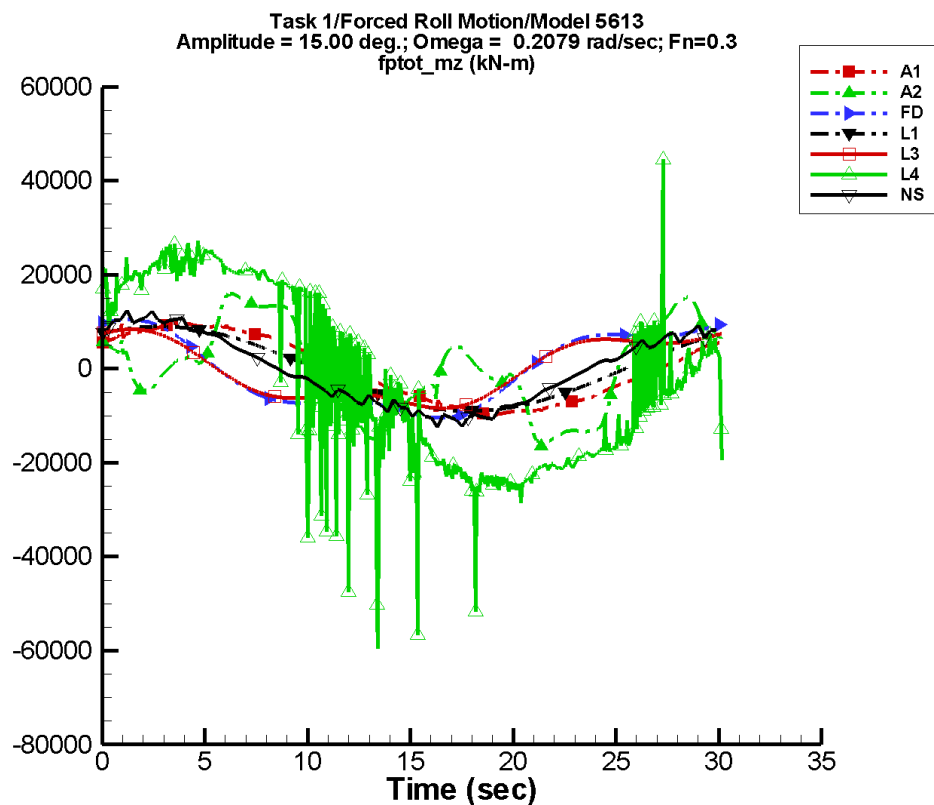
Table C–391. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.19	3.11E+03	38	1.77	17
A2	36.0	8.20E+03	164	269.	52
FD	4.46	3.53E+03	66	20.8	64
L1	-1.78	3.00E+03	57	0.101	-154
L3	3.76	2.85E+03	62	21.9	87
L4	-559.	1.13E+04	20	497.	-11
NF	—	—	—	—	—
NS	1.15E-02	3.28E+03	72	6.16E-02	10

Table C–392. Minimum and maximum of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.30E+03	3.36E+03	-3.24E+03	3.25E+03
A2	-9.50E+03	9.50E+03	-9.48E+03	9.50E+03
FD	-3.65E+03	3.65E+03	-3.65E+03	3.65E+03
L1	-3.00E+03	3.00E+03	-3.00E+03	3.00E+03
L3	-2.94E+03	2.94E+03	-2.94E+03	2.93E+03
L4	-2.25E+04	1.35E+04	-1.22E+04	1.21E+04
NF	—	—	—	—
NS	-3.38E+03	3.38E+03	-3.25E+03	3.25E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-197. Time history of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

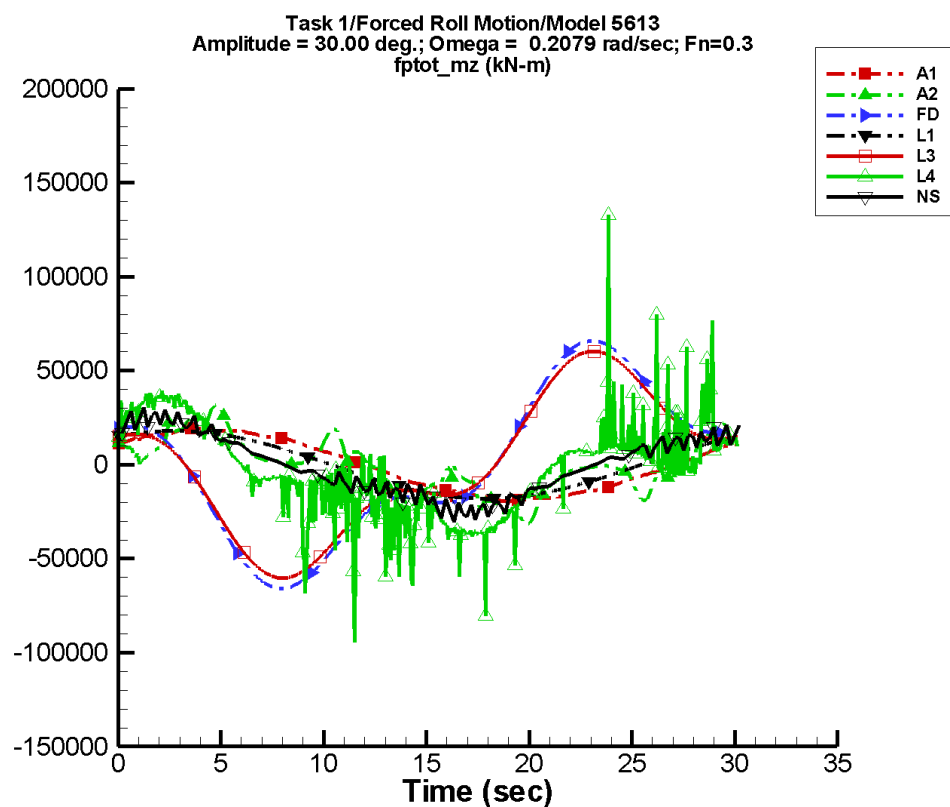
Table C–393. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.56	9.33E+03	38	5.32	17
A2	-252.	6.91E+03	45	1.56E+03	-125
FD	78.5	1.02E+04	106	408.	60
L1	-1.78	9.00E+03	57	8.83E-02	-141
L3	144.	8.06E+03	108	576.	87
L4	-1.97E+03	2.41E+04	37	2.41E+03	-31
NF	—	—	—	—	—
NS	-4.51E-02	1.03E+04	74	0.272	31

Table C–394. Minimum and maximum of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.89E+03	1.01E+04	-9.70E+03	9.73E+03
A2	-1.65E+04	1.64E+04	-1.57E+04	1.57E+04
FD	-1.04E+04	1.04E+04	-1.04E+04	1.04E+04
L1	-9.00E+03	9.00E+03	-9.00E+03	9.00E+03
L3	-8.39E+03	8.39E+03	-8.38E+03	8.38E+03
L4	-5.95E+04	4.45E+04	-3.21E+04	2.47E+04
NF	—	—	—	—
NS	-1.24E+04	1.24E+04	-1.08E+04	1.08E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-198. Time history of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

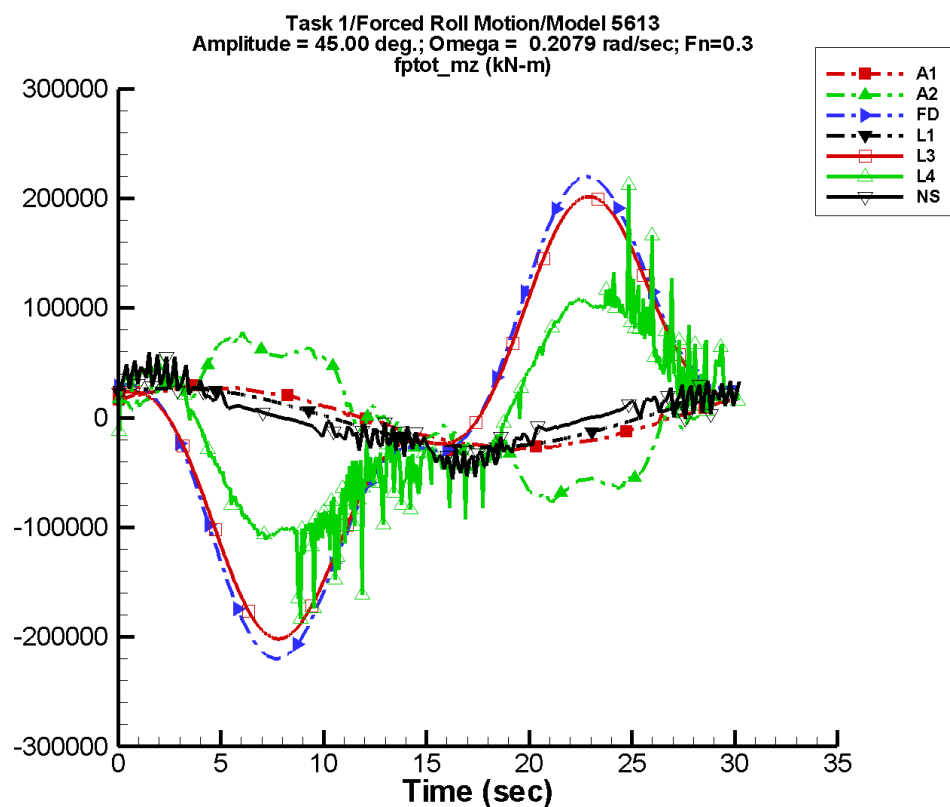
Table C–395. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-7.12	1.87E+04	38	10.6	17
A2	-154.	1.63E+04	45	686.	-26
FD	537.	5.17E+04	157	2.78E+03	60
L1	-1.79	1.80E+04	57	6.92E-02	-129
L3	1.01E+03	4.61E+04	160	4.00E+03	87
L4	-2.17E+03	2.96E+04	93	2.41E+03	12
NF	—	—	—	—	—
NS	0.119	2.13E+04	77	0.359	18

Table C–396. Minimum and maximum of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.98E+04	2.01E+04	-1.94E+04	1.95E+04
A2	-3.17E+04	3.20E+04	-2.91E+04	2.94E+04
FD	-6.58E+04	6.58E+04	-6.56E+04	6.56E+04
L1	-1.80E+04	1.80E+04	-1.80E+04	1.80E+04
L3	-6.04E+04	6.04E+04	-6.03E+04	6.03E+04
L4	-1.15E+05	1.33E+05	-4.64E+04	3.61E+04
NF	—	—	—	—
NS	-3.05E+04	3.05E+04	-2.52E+04	2.52E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-199. Time history of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

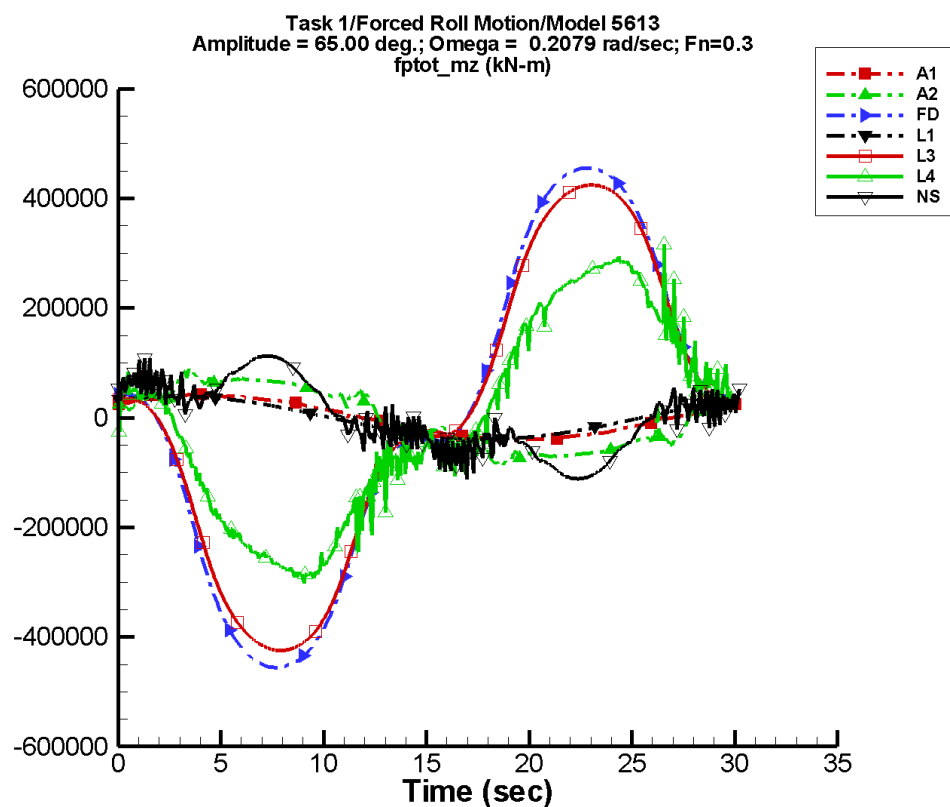
Table C–397. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-10.7	2.80E+04	38	16.0	17
A2	-500.	5.72E+04	15	2.64E+03	-115
FD	1.66E+03	1.69E+05	169	8.63E+03	60
L1	-1.79	2.70E+04	57	6.81E-02	-91
L3	3.15E+03	1.53E+05	170	1.24E+04	87
L4	-1.25E+03	9.19E+04	150	5.95E+03	71
NF	—	—	—	—	—
NS	21.1	3.13E+04	79	15.4	64

Table C–398. Minimum and maximum of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.97E+04	3.02E+04	-2.91E+04	2.92E+04
A2	-7.71E+04	7.81E+04	-7.28E+04	7.28E+04
FD	-2.20E+05	2.20E+05	-2.19E+05	2.19E+05
L1	-2.70E+04	2.70E+04	-2.70E+04	2.70E+04
L3	-2.02E+05	2.02E+05	-2.01E+05	2.01E+05
L4	-1.83E+05	2.12E+05	-1.30E+05	1.18E+05
NF	—	—	—	—
NS	-5.60E+04	5.97E+04	-4.24E+04	4.26E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-200. Time history of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

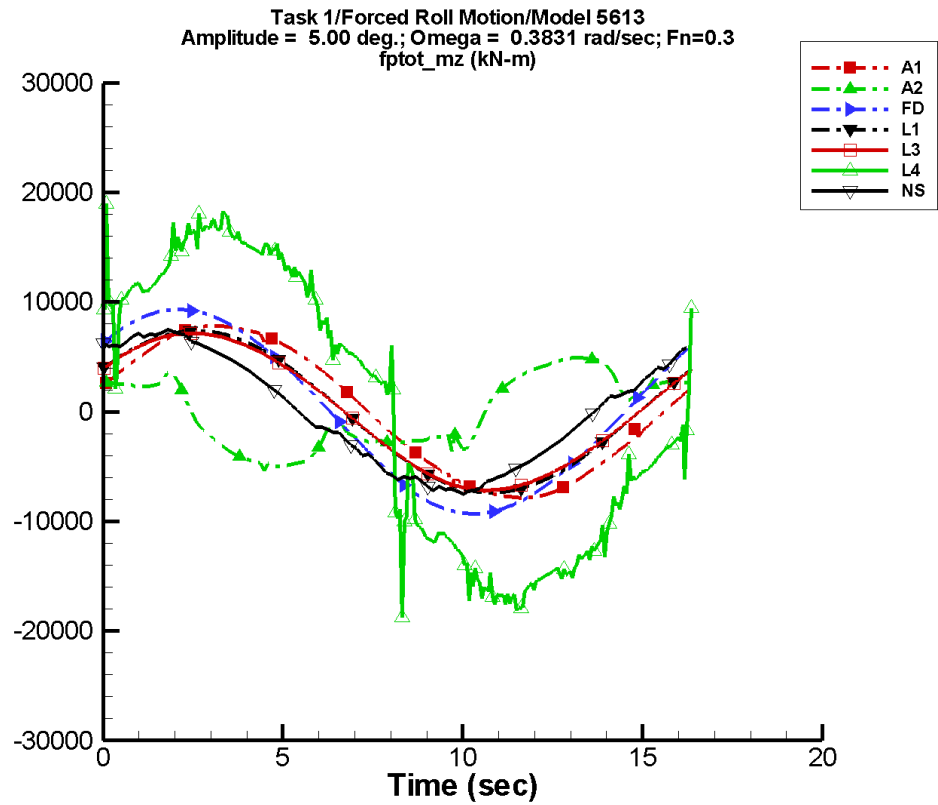
Table C–399. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-15.4	4.04E+04	38	23.1	17
A2	-172.	7.07E+04	20	873.	-96
FD	3.11E+03	3.97E+05	173	1.61E+04	68
L1	-1.87	3.90E+04	57	0.136	-103
L3	5.87E+03	3.66E+05	174	2.26E+04	86
L4	21.0	2.42E+05	164	1.10E+04	89
NF	—	—	—	—	—
NS	212.	7.85E+04	32	396.	-91

Table C–400. Minimum and maximum of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.28E+04	4.36E+04	-4.21E+04	4.22E+04
A2	-9.07E+04	9.09E+04	-8.30E+04	8.32E+04
FD	-4.56E+05	4.56E+05	-4.55E+05	4.55E+05
L1	-3.90E+04	3.90E+04	-3.90E+04	3.90E+04
L3	-4.25E+05	4.25E+05	-4.24E+05	4.24E+05
L4	-3.01E+05	3.16E+05	-2.89E+05	2.87E+05
NF	—	—	—	—
NS	-1.11E+05	1.13E+05	-1.11E+05	1.12E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-201. Time history of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

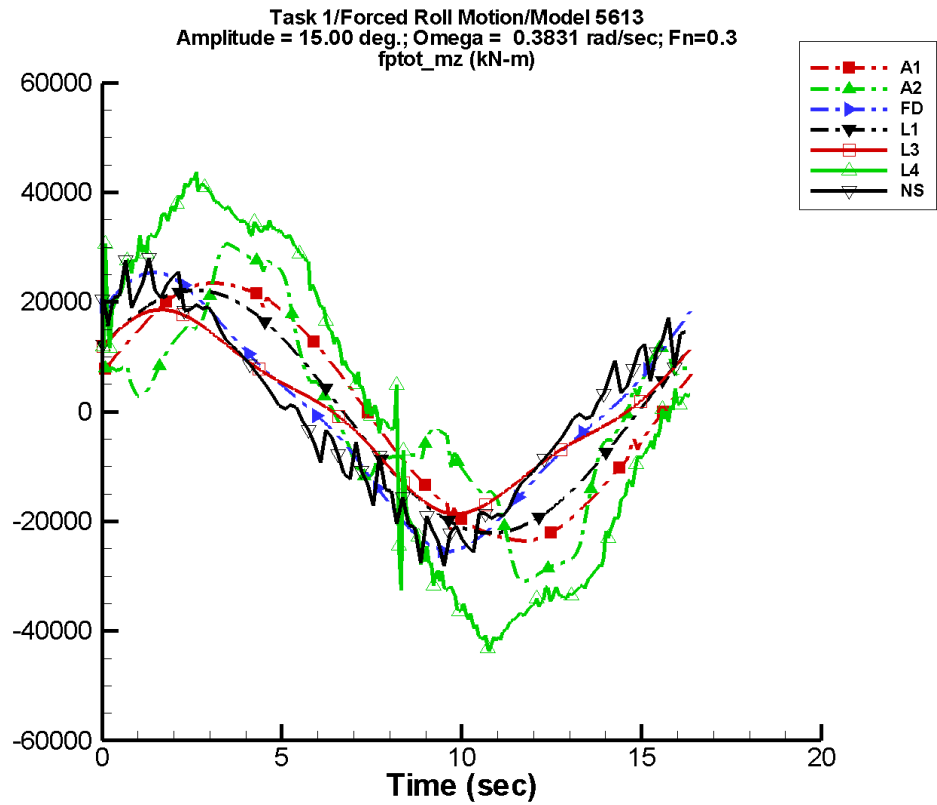
Table C–401. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.25	7.81E+03	18	21.9	52
A2	28.0	4.15E+03	134	299.	51
FD	4.67	9.26E+03	42	28.2	78
L1	-1.85	7.38E+03	33	3.49E-02	-29
L3	5.84	7.13E+03	33	13.4	149
L4	149.	1.70E+04	15	261.	126
NF	—	—	—	—	—
NS	-2.86E-02	6.93E+03	58	0.653	-146

Table C–402. Minimum and maximum of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.85E+03	8.37E+03	-7.81E+03	7.79E+03
A2	-5.42E+03	4.92E+03	-4.92E+03	4.88E+03
FD	-9.31E+03	9.31E+03	-9.28E+03	9.28E+03
L1	-7.38E+03	7.37E+03	-7.37E+03	7.36E+03
L3	-7.16E+03	7.16E+03	-7.15E+03	7.15E+03
L4	-1.91E+04	1.90E+04	-1.74E+04	1.72E+04
NF	—	—	—	—
NS	-7.52E+03	7.52E+03	-7.15E+03	7.14E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-202. Time history of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–403. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-12.8	2.34E+04	18	65.6	52
A2	-233.	2.09E+04	18	1.56E+03	-126
FD	90.9	2.27E+04	55	576.	79
L1	-1.89	2.21E+04	33	4.70E-02	-108
L3	198.	1.66E+04	48	350.	148
L4	280.	4.03E+04	19	412.	132
NF	—	—	—	—	—
NS	-0.140	2.14E+04	61	2.88	-124

Table C–404. Minimum and maximum of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.35E+04	2.51E+04	-2.34E+04	2.34E+04
A2	-3.11E+04	3.26E+04	-3.03E+04	2.98E+04
FD	-2.55E+04	2.55E+04	-2.52E+04	2.52E+04
L1	-2.21E+04	2.21E+04	-2.21E+04	2.21E+04
L3	-1.86E+04	1.86E+04	-1.86E+04	1.86E+04
L4	-4.38E+04	4.38E+04	-4.20E+04	4.19E+04
NF	—	—	—	—
NS	-2.82E+04	2.81E+04	-2.35E+04	2.34E+04

TASK 1/ROLL MOTION/MODEL 5613

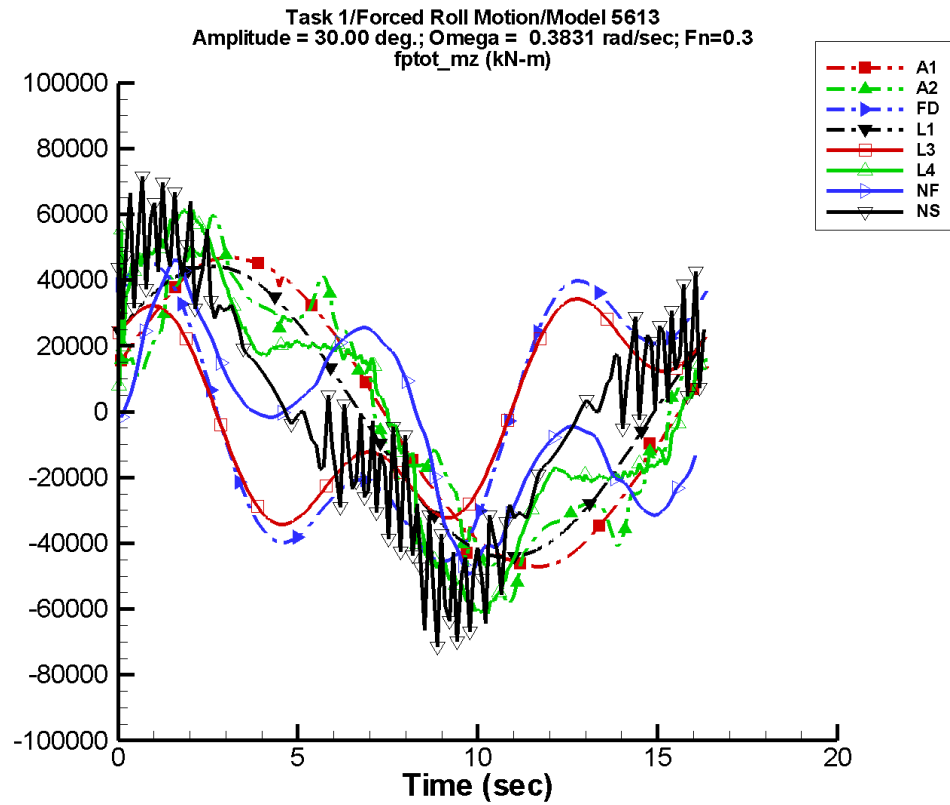


Figure C-203. Time history of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–405. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-25.5	4.68E+04	18	131.	52
A2	-206.	4.38E+04	19	711.	-11
FD	641.	4.16E+04	116	3.97E+03	80
L1	-1.92	4.43E+04	33	7.58E-02	-151
L3	1.39E+03	3.19E+04	122	2.44E+03	148
L4	1.50E+03	4.49E+04	37	2.60E+03	147
NF	-1.68E+03	2.57E+04	2	3.91E+03	26
NS	-1.56E-02	4.35E+04	66	11.2	-104

Table C–406. Minimum and maximum of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.71E+04	5.02E+04	-4.69E+04	4.67E+04
A2	-5.84E+04	5.96E+04	-5.24E+04	5.36E+04
FD	-4.56E+04	4.56E+04	-4.48E+04	4.48E+04
L1	-4.43E+04	4.43E+04	-4.42E+04	4.42E+04
L3	-3.43E+04	3.43E+04	-3.41E+04	3.41E+04
L4	-6.13E+04	6.15E+04	-6.02E+04	6.03E+04
NF	-4.94E+04	4.59E+04	-4.50E+04	4.31E+04
NS	-7.14E+04	7.14E+04	-5.52E+04	5.51E+04

TASK 1/ROLL MOTION/MODEL 5613

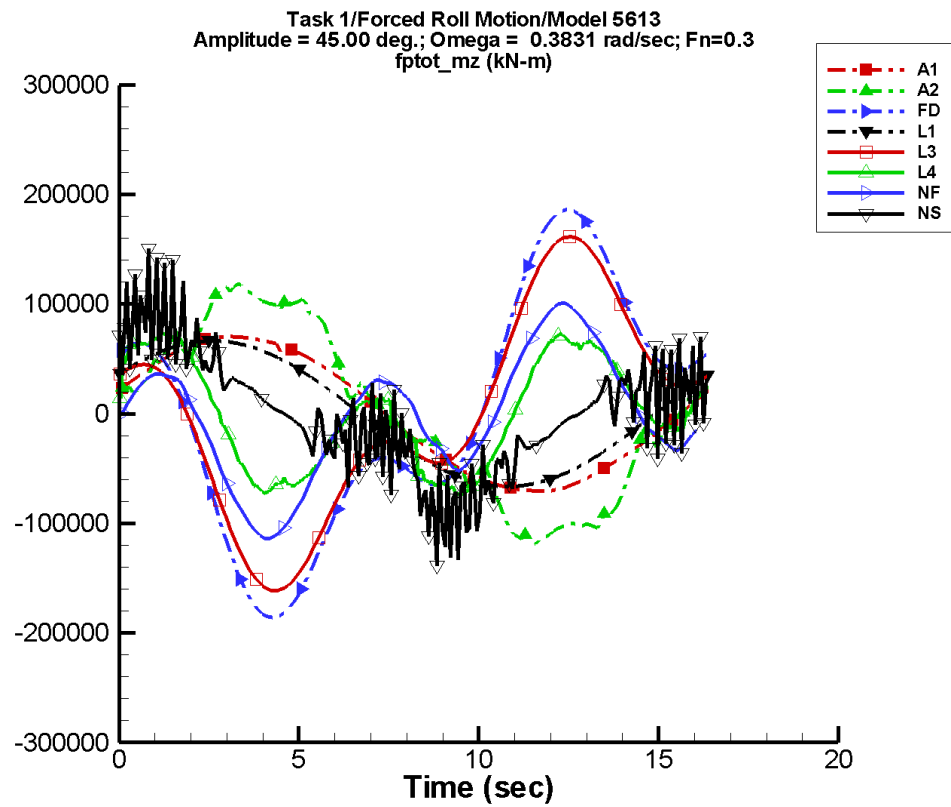


Figure C-204. Time history of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–407. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-38.2	7.03E+04	18	197.	52
A2	-515.	1.02E+05	11	2.46E+03	-116
FD	2.00E+03	1.40E+05	157	1.23E+04	80
L1	-1.96	6.64E+04	33	0.198	-132
L3	4.30E+03	1.23E+05	158	7.55E+03	148
L4	4.21E+03	5.08E+04	120	7.54E+03	144
NF	-414.	4.99E+04	150	8.68E+03	41
NS	36.4	6.36E+04	70	35.6	58

Table C–408. Minimum and maximum of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.06E+04	7.53E+04	-7.03E+04	7.01E+04
A2	-1.18E+05	1.20E+05	-1.15E+05	1.15E+05
FD	-1.86E+05	1.86E+05	-1.84E+05	1.84E+05
L1	-6.64E+04	6.64E+04	-6.63E+04	6.63E+04
L3	-1.61E+05	1.61E+05	-1.61E+05	1.61E+05
L4	-7.47E+04	7.44E+04	-7.19E+04	7.17E+04
NF	-1.14E+05	1.01E+05	-1.09E+05	9.55E+04
NS	-1.39E+05	1.50E+05	-9.40E+04	9.46E+04

TASK 1/ROLL MOTION/MODEL 5613

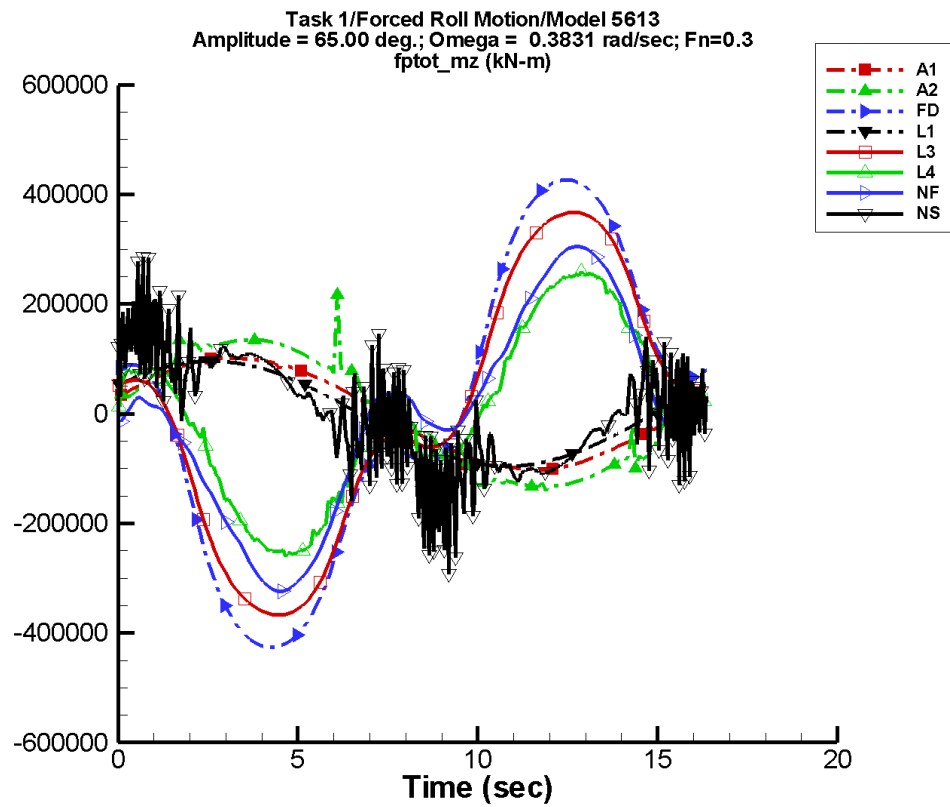


Figure C-205. Time history of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

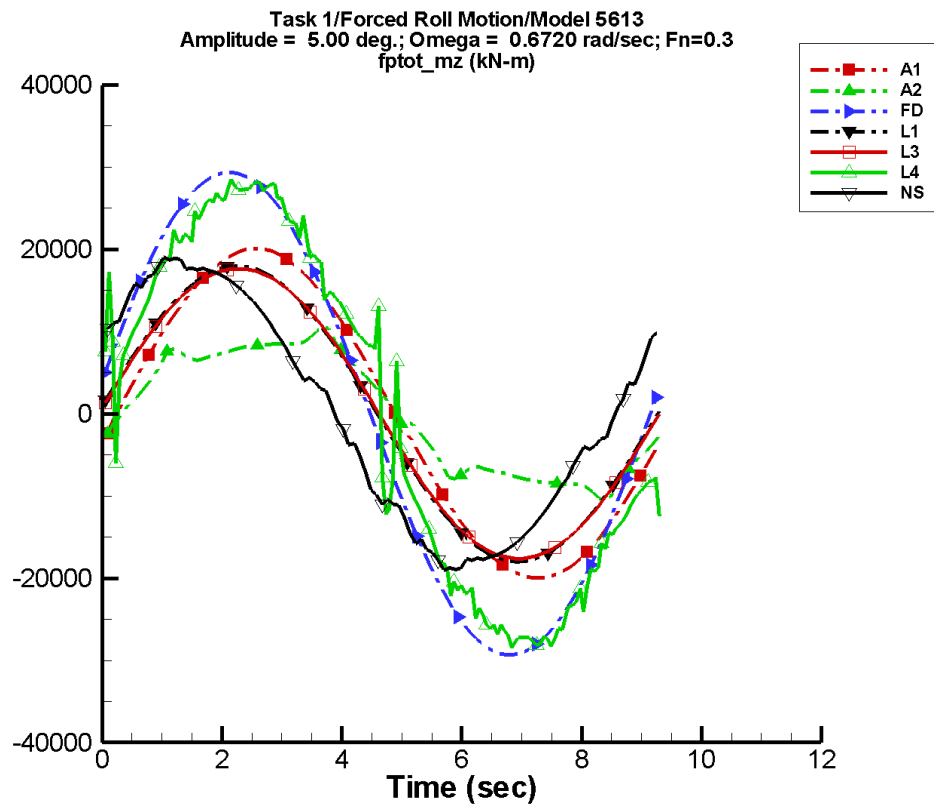
Table C–409. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-55.2	1.01E+05	18	284.	52
A2	754.	1.35E+05	12	2.10E+03	-155
FD	3.60E+03	3.64E+05	168	2.24E+04	80
L1	-2.12	9.59E+04	33	0.385	-135
L3	7.36E+03	3.18E+05	167	1.35E+04	140
L4	7.84E+03	1.92E+05	159	1.50E+04	131
NF	541.	2.18E+05	157	1.06E+04	28
NS	229.	1.14E+05	47	203.	-109

Table C–410. Minimum and maximum of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.02E+05	1.09E+05	-1.02E+05	1.01E+05
A2	-1.41E+05	2.18E+05	-1.33E+05	1.36E+05
FD	-4.27E+05	4.27E+05	-4.25E+05	4.24E+05
L1	-9.59E+04	9.59E+04	-9.58E+04	9.58E+04
L3	-3.67E+05	3.67E+05	-3.67E+05	3.67E+05
L4	-2.64E+05	2.61E+05	-2.55E+05	2.55E+05
NF	-3.24E+05	3.04E+05	-3.17E+05	2.98E+05
NS	-2.92E+05	2.85E+05	-1.58E+05	1.57E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-206. Time history of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

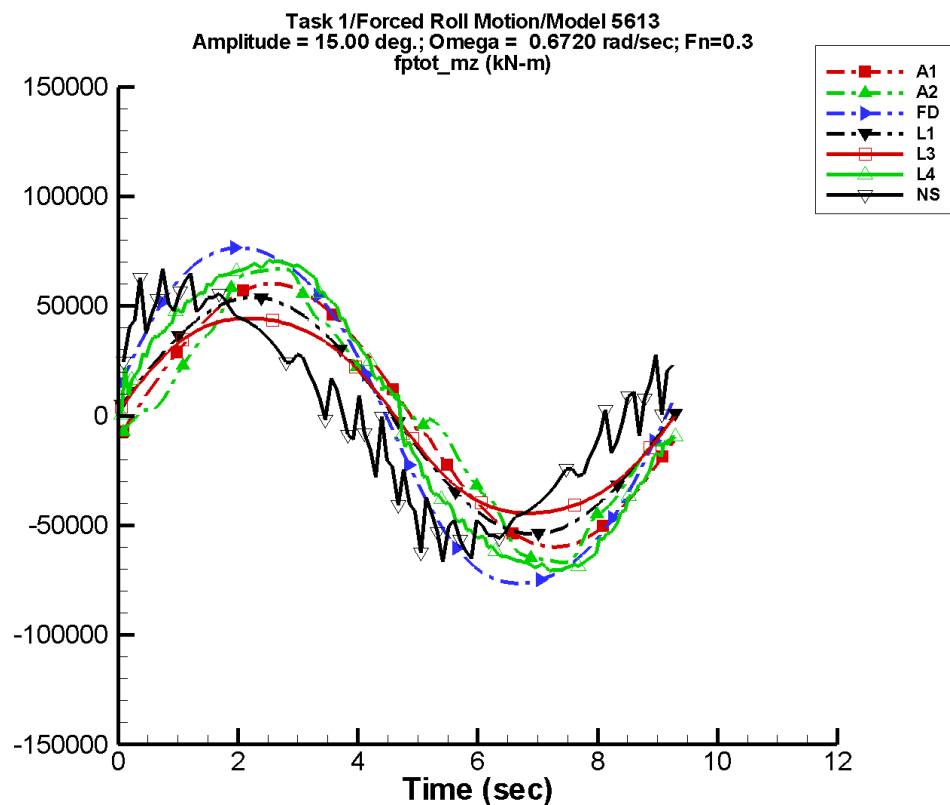
Table C–411. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-21.2	1.99E+04	-9	58.6	-86
A2	63.6	9.69E+03	-13	193.	8
FD	12.5	2.95E+04	8	23.3	142
L1	-1.90	1.80E+04	3	3.25E-02	-138
L3	-2.20	1.77E+04	2	19.4	54
L4	98.2	2.80E+04	0	249.	105
NF	—	—	—	—	—
NS	-2.32	1.81E+04	33	4.61	139

Table C–412. Minimum and maximum of M_z^{ptot} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.00E+04	2.01E+04	-1.97E+04	1.98E+04
A2	-1.06E+04	1.05E+04	-9.37E+03	9.28E+03
FD	-2.93E+04	2.93E+04	-2.90E+04	2.90E+04
L1	-1.80E+04	1.80E+04	-1.79E+04	1.79E+04
L3	-1.76E+04	1.76E+04	-1.76E+04	1.76E+04
L4	-2.85E+04	2.85E+04	-2.77E+04	2.78E+04
NF	—	—	—	—
NS	-1.90E+04	1.91E+04	-1.83E+04	1.83E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-207. Time history of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–413. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-63.5	5.96E+04	-9	176.	-86
A2	-634.	5.66E+04	-10	1.23E+03	-149
FD	262.	7.92E+04	9	487.	147
L1	-1.96	5.40E+04	3	7.49E-02	-136
L3	-3.95	4.65E+04	3	506.	55
L4	148.	7.22E+04	0	920.	94
NF	—	—	—	—	—
NS	-8.16	5.38E+04	37	39.5	102

Table C–414. Minimum and maximum of M_z^{ptot} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.99E+04	6.03E+04	-5.92E+04	5.95E+04
A2	-6.68E+04	6.70E+04	-6.61E+04	6.65E+04
FD	-7.65E+04	7.65E+04	-7.58E+04	7.59E+04
L1	-5.40E+04	5.40E+04	-5.37E+04	5.37E+04
L3	-4.44E+04	4.44E+04	-4.43E+04	4.43E+04
L4	-7.11E+04	7.12E+04	-6.98E+04	6.98E+04
NF	—	—	—	—
NS	-6.67E+04	6.69E+04	-5.56E+04	5.57E+04

TASK 1/ROLL MOTION/MODEL 5613

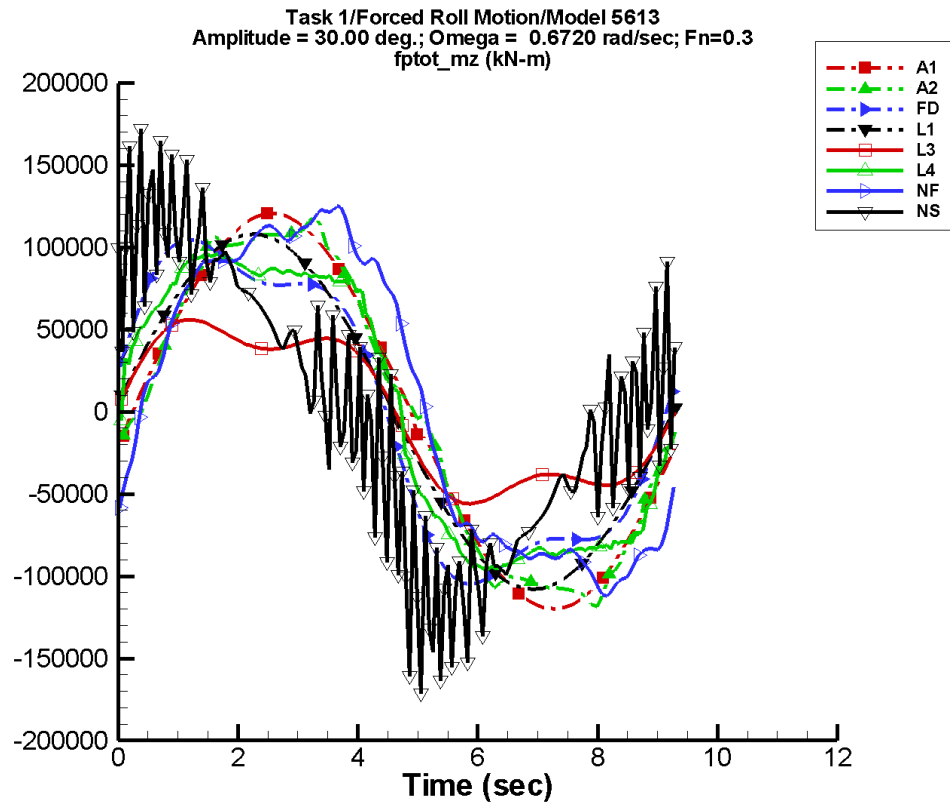


Figure C-208. Time history of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–415. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-127.	1.19E+05	-9	352.	-86
A2	45.5	1.17E+05	-9	1.50E+03	-65
FD	1.85E+03	1.04E+05	15	3.43E+03	147
L1	-2.14	1.08E+05	3	0.205	-138
L3	-9.35	5.46E+04	8	3.52E+03	55
L4	180.	1.04E+05	2	4.70E+03	57
NF	-1.15E+03	9.39E+04	-27	2.46E+03	-173
NS	-19.3	1.05E+05	41	150.	89

Table C–416. Minimum and maximum of M_z^{ptot} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.20E+05	1.21E+05	-1.18E+05	1.19E+05
A2	-1.19E+05	1.19E+05	-1.11E+05	1.11E+05
FD	-1.05E+05	1.05E+05	-1.02E+05	1.03E+05
L1	-1.08E+05	1.08E+05	-1.07E+05	1.07E+05
L3	-5.59E+04	5.59E+04	-5.53E+04	5.53E+04
L4	-9.60E+04	9.63E+04	-9.49E+04	9.49E+04
NF	-1.12E+05	1.02E+05	-1.07E+05	9.32E+04
NS	-1.71E+05	1.72E+05	-1.21E+05	1.22E+05

TASK 1/ROLL MOTION/MODEL 5613

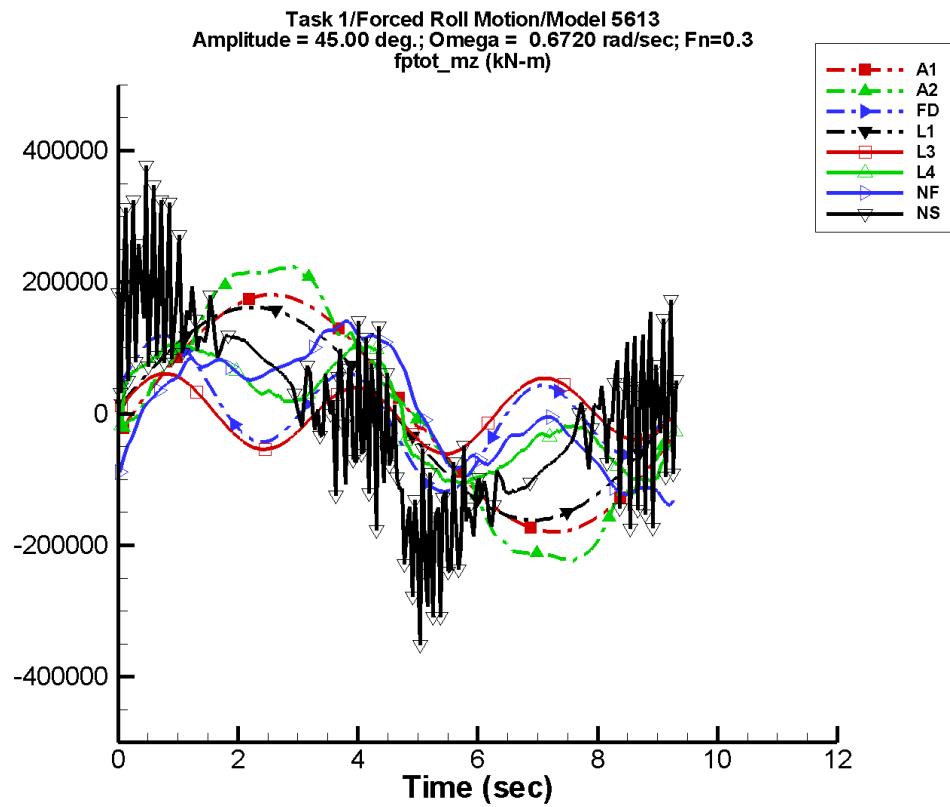


Figure C-209. Time history of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

Table C–417. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-191.	1.79E+05	-9	527.	-86
A2	-894.	2.11E+05	-8	2.52E+03	-123
FD	5.79E+03	4.99E+04	61	1.07E+04	147
L1	-2.38	1.62E+05	3	0.479	-127
L3	-18.8	1.92E+04	110	1.09E+04	55
L4	196.	7.84E+04	11	1.27E+04	45
NF	-3.92E+03	6.36E+04	-51	1.31E+04	-148
NS	40.2	1.50E+05	45	327.	80

Table C–418. Minimum and maximum of M_z^{ptot} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.80E+05	1.81E+05	-1.78E+05	1.78E+05
A2	-2.24E+05	2.23E+05	-2.18E+05	2.19E+05
FD	-1.19E+05	1.19E+05	-1.11E+05	1.10E+05
L1	-1.62E+05	1.62E+05	-1.61E+05	1.61E+05
L3	-6.09E+04	6.09E+04	-5.90E+04	5.90E+04
L4	-1.06E+05	1.06E+05	-1.03E+05	1.03E+05
NF	-1.40E+05	1.35E+05	-1.23E+05	1.12E+05
NS	-3.52E+05	3.77E+05	-2.08E+05	2.11E+05

TASK 1/ROLL MOTION/MODEL 5613

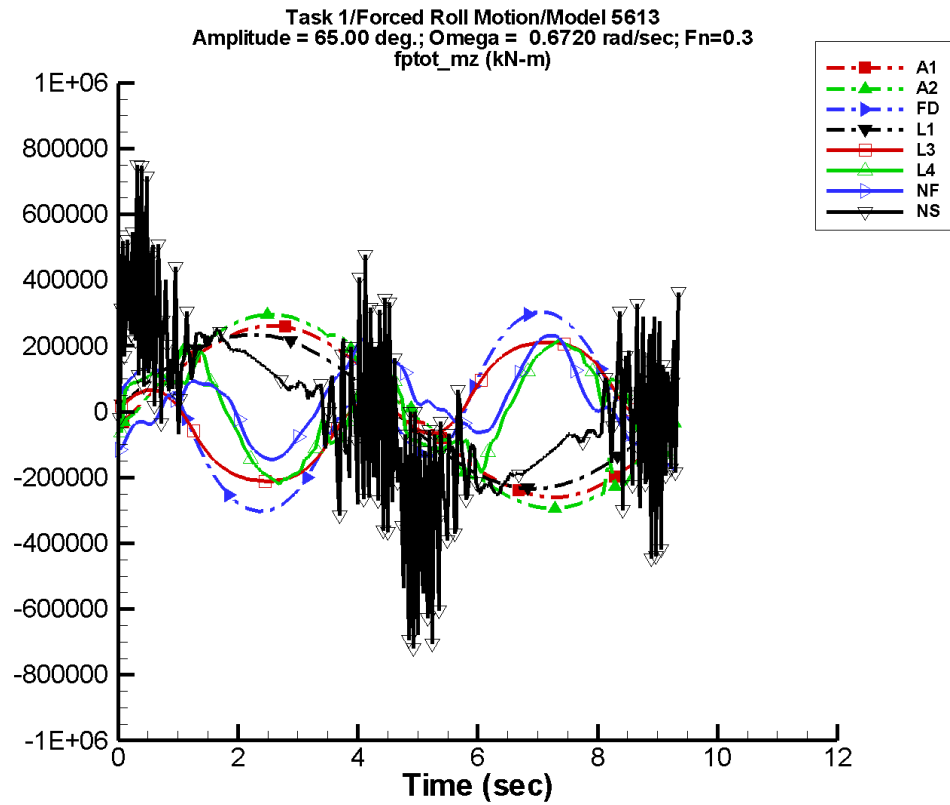


Figure C-210. Time history of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

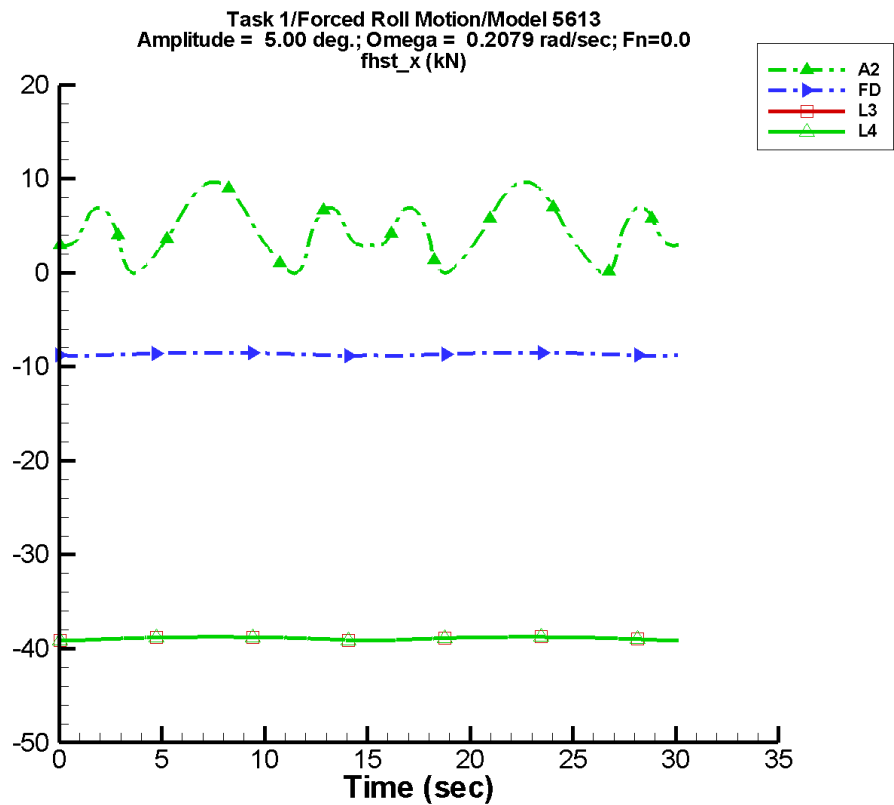
Table C–419. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-275.	2.58E+05	-9	762.	-86
A2	511.	2.92E+05	-8	2.34E+03	-131
FD	1.13E+04	2.10E+05	162	2.16E+04	142
L1	-2.83	2.34E+05	3	1.02	-137
L3	788.	1.59E+05	167	1.87E+04	58
L4	-591.	8.94E+04	130	2.95E+04	31
NF	-658.	1.08E+05	-166	1.17E+04	-161
NS	33.4	2.31E+05	43	96.1	70

Table C–420. Minimum and maximum of M_z^{ptot} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.60E+05	2.61E+05	-2.57E+05	2.58E+05
A2	-2.94E+05	2.96E+05	-2.91E+05	2.92E+05
FD	-3.03E+05	3.03E+05	-2.94E+05	2.98E+05
L1	-2.34E+05	2.34E+05	-2.33E+05	2.33E+05
L3	-2.11E+05	2.11E+05	-2.10E+05	2.10E+05
L4	-2.20E+05	2.19E+05	-2.06E+05	2.06E+05
NF	-2.62E+05	2.83E+05	-2.56E+05	2.69E+05
NS	-7.19E+05	7.50E+05	-3.77E+05	3.77E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-211. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

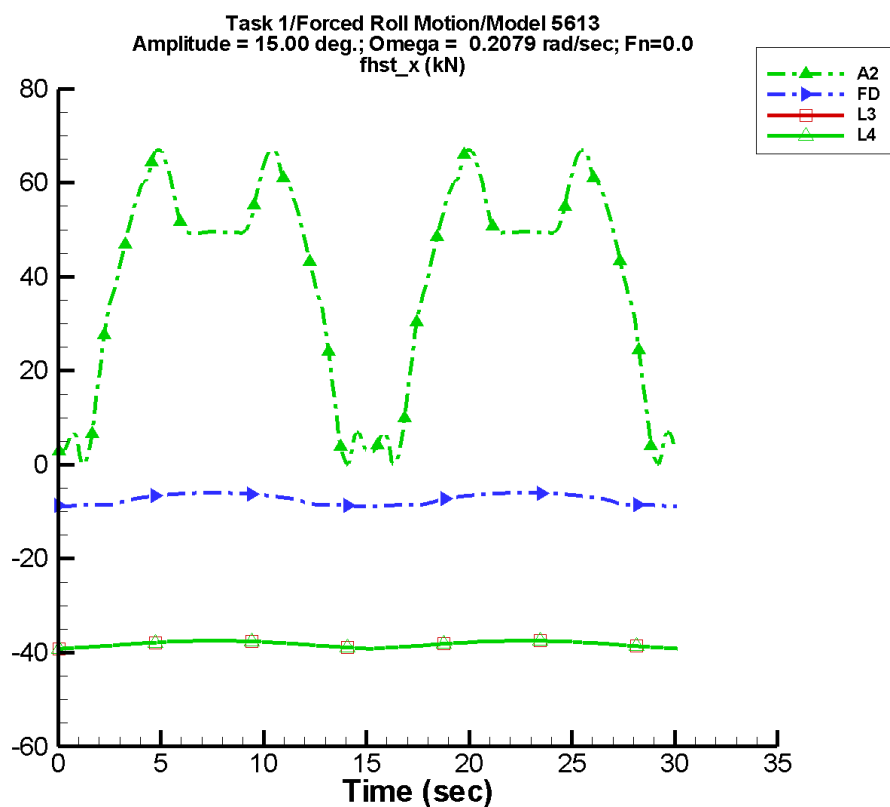
Table C–421. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.58	3.43E-02	-131	1.36	-99
FD	-8.65	2.56E-04	11	0.171	-90
L1	—	—	—	—	—
L3	-38.9	3.66E-03	-62	0.177	-91
L4	-38.9	3.66E-03	-62	0.177	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–422. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.28E-02	9.66	0.127	9.58
FD	-8.84	-8.50	-8.84	-8.50
L1	—	—	—	—
L3	-39.2	-38.8	-39.2	-38.8
L4	-39.2	-38.8	-39.2	-38.8
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-212. Time history of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

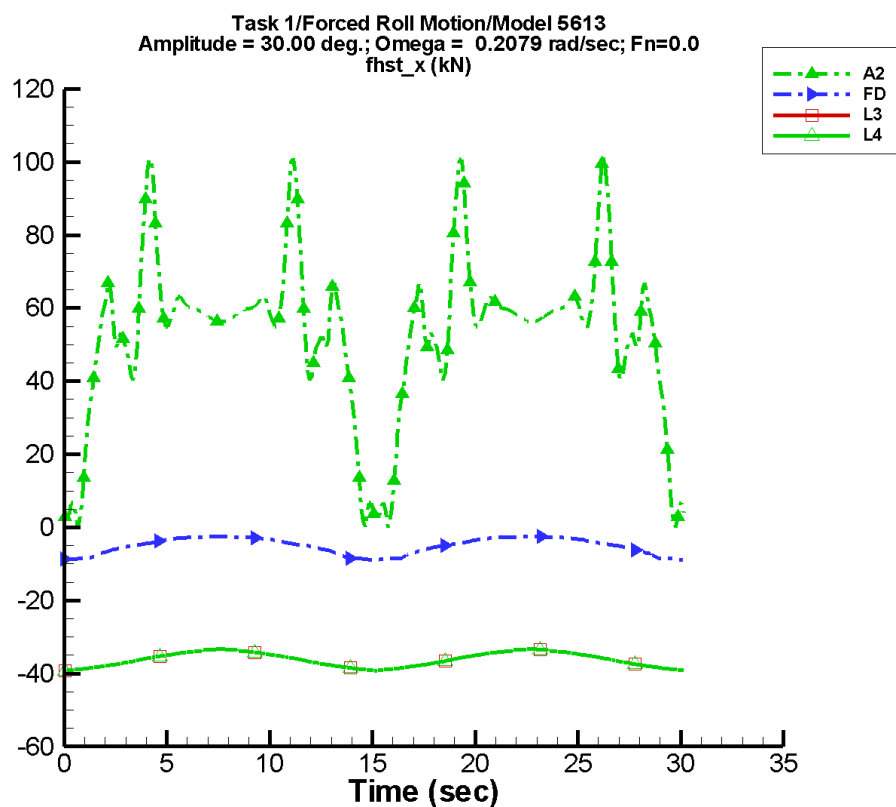
Table C–423. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	39.4	0.259	6	25.7	-89
FD	-7.39	1.49E-03	47	1.52	-90
L1	—	—	—	—	—
L3	-38.2	7.28E-03	-59	0.775	-91
L4	-38.2	7.28E-03	-59	0.775	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–424. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-4.04E-02	67.0	2.72	65.8
FD	-8.84	-5.98	-8.82	-5.98
L1	—	—	—	—
L3	-39.2	-37.5	-39.1	-37.5
L4	-39.2	-37.5	-39.1	-37.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-213. Time history of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

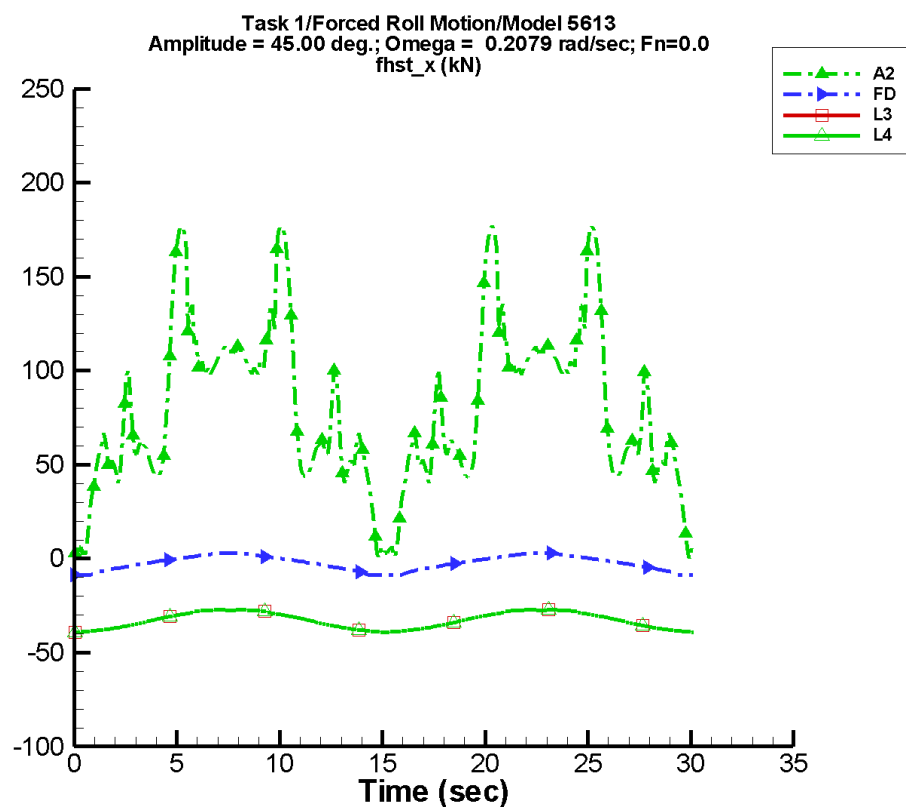
Table C–425. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	52.1	0.378	-20	18.4	-87
FD	-5.10	1.35E-02	2	3.06	-89
L1	—	—	—	—	—
L3	-36.2	5.59E-03	-63	2.69	-91
L4	-36.2	5.59E-03	-63	2.69	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–426. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.33E-02	101.	3.14	88.9
FD	-8.84	-2.55	-8.80	-2.56
L1	—	—	—	—
L3	-39.2	-33.4	-39.1	-33.4
L4	-39.2	-33.4	-39.1	-33.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-214. Time history of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

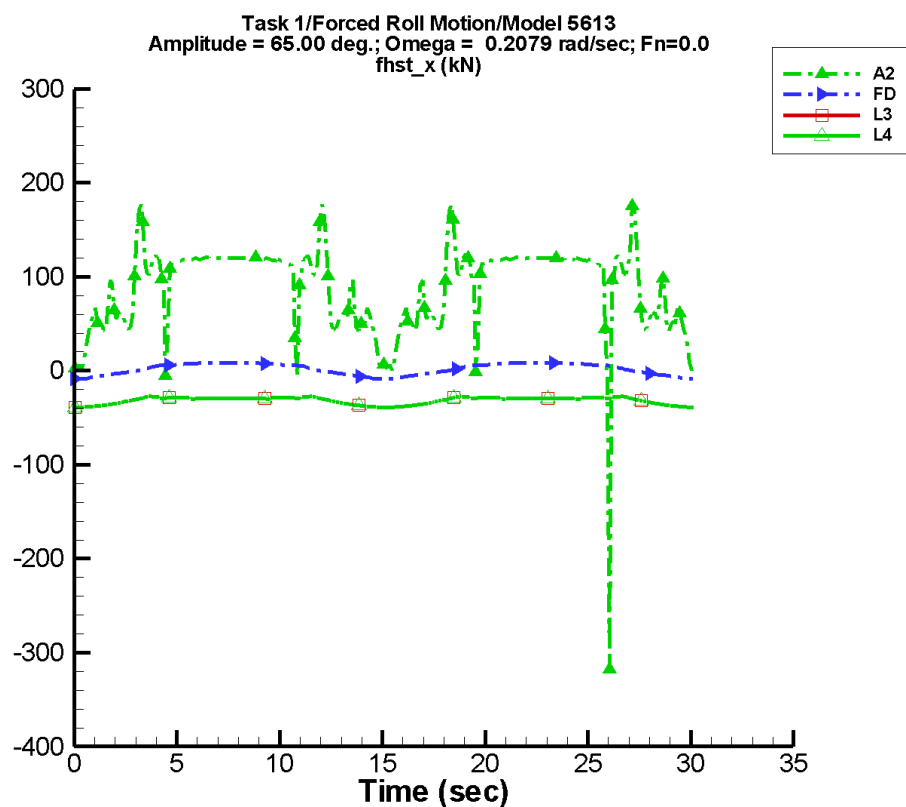
Table C–427. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	79.5	0.338	4	47.2	-91
FD	-2.40	6.32E-03	-34	5.28	-90
L1	—	—	—	—	—
L3	-32.9	6.18E-03	-62	5.91	-91
L4	-32.9	6.18E-03	-62	5.91	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–428. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-4.16E-02	177.	2.71	165.
FD	-8.84	3.06	-8.80	3.02
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.3
L4	-39.2	-27.3	-39.1	-27.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-215. Time history of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

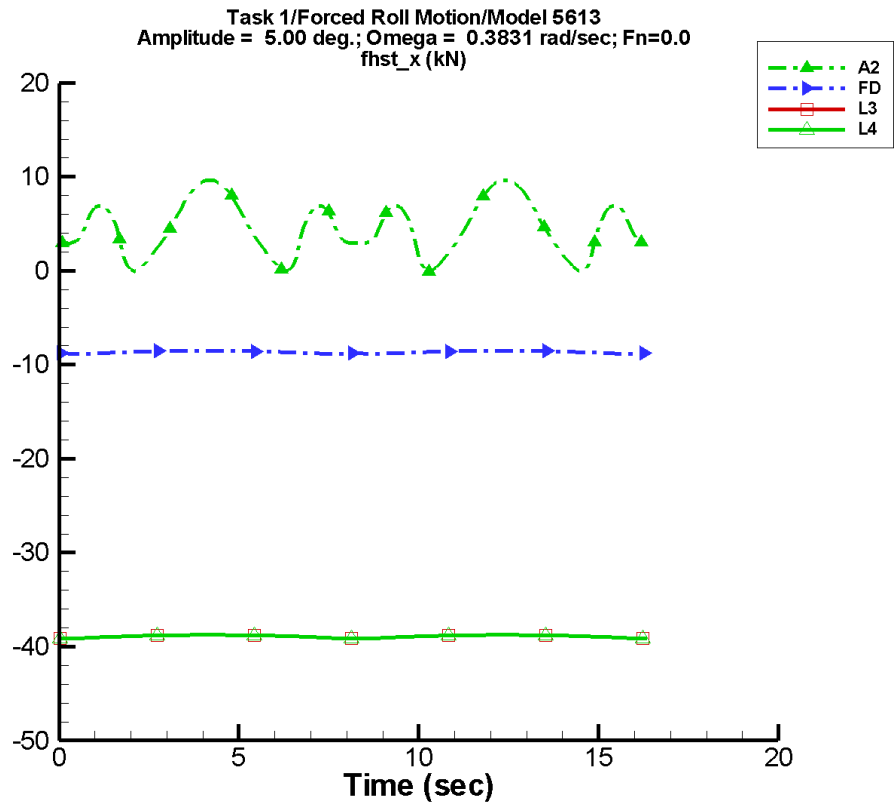
Table C–429. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	88.7	3.20	-44	39.8	-86
FD	1.74	3.68E-02	5	8.36	-89
L1	—	—	—	—	—
L3	-31.7	0.221	-61	4.11	-91
L4	-31.7	0.221	-61	4.11	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–430. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-317.	177.	2.64	136.
FD	-8.84	8.60	-8.82	8.56
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.4
L4	-39.2	-27.3	-39.1	-27.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-216. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

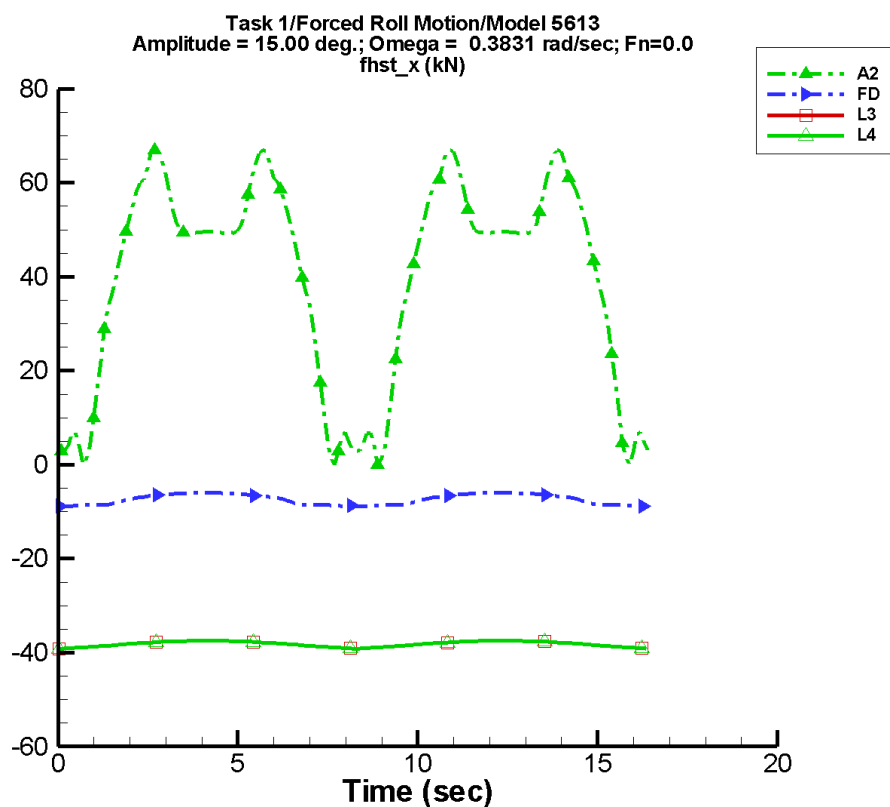
Table C–431. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.58	3.03E-02	-115	1.37	-103
FD	-8.65	6.69E-04	-78	0.171	-90
L1	—	—	—	—	—
L3	-38.9	3.18E-03	-35	0.180	-91
L4	-38.9	3.18E-03	-35	0.180	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–432. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.32E-02	9.66	0.611	9.43
FD	-8.84	-8.50	-8.83	-8.50
L1	—	—	—	—
L3	-39.2	-38.8	-39.2	-38.8
L4	-39.2	-38.8	-39.2	-38.8
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-217. Time history of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

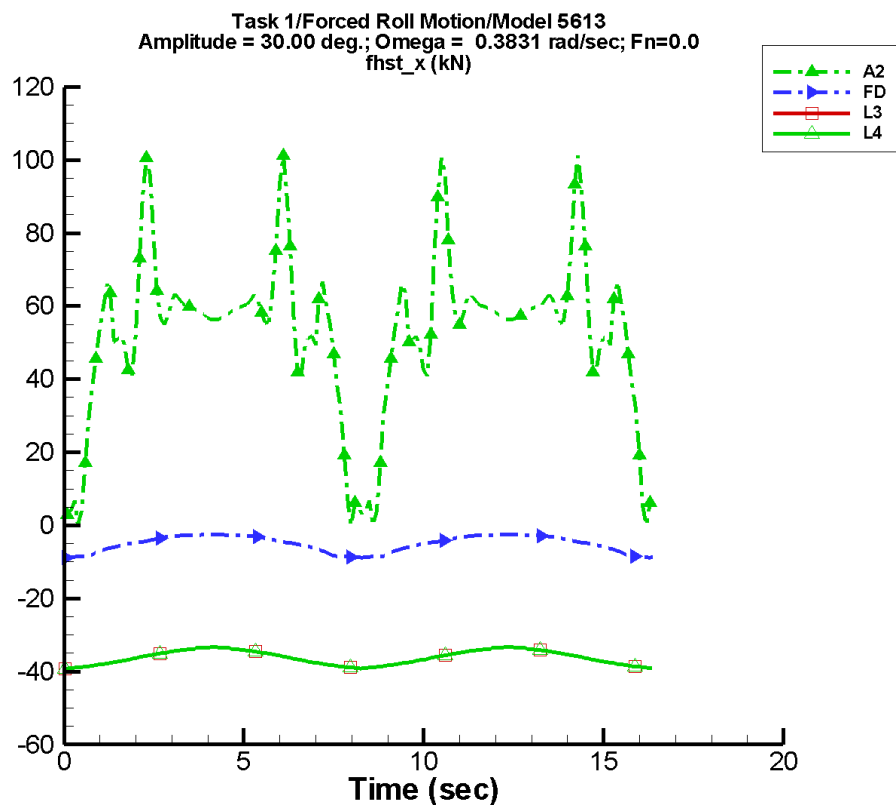
Table C–433. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	39.4	0.144	13	25.6	-91
FD	-7.38	7.65E-03	-53	1.51	-90
L1	—	—	—	—	—
L3	-38.2	7.70E-03	-36	0.780	-92
L4	-38.2	7.70E-03	-36	0.780	-92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–434. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.34E-02	67.0	3.38	63.6
FD	-8.84	-5.98	-8.81	-6.00
L1	—	—	—	—
L3	-39.2	-37.5	-39.1	-37.5
L4	-39.2	-37.5	-39.1	-37.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-218. Time history of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

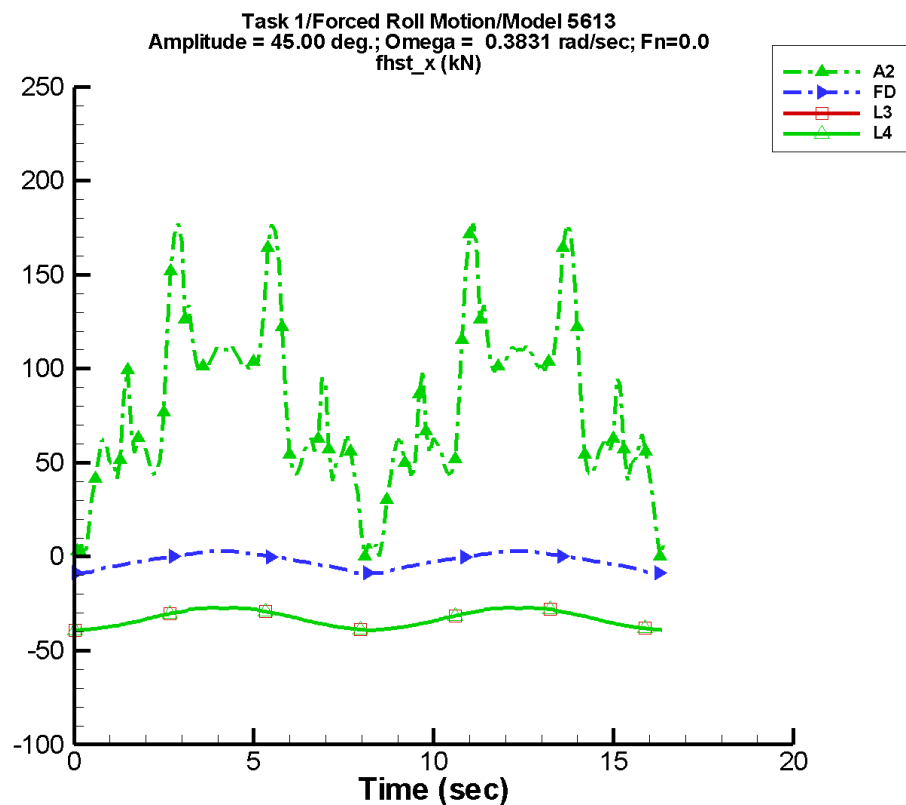
Table C–435. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	52.1	0.284	-29	18.3	-89
FD	-5.09	2.02E-02	-62	3.02	-90
L1	—	—	—	—	—
L3	-36.2	3.66E-03	-60	2.69	-93
L4	-36.2	3.66E-03	-60	2.69	-93
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–436. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.21E-02	101.	2.62	75.4
FD	-8.84	-2.55	-8.80	-2.58
L1	—	—	—	—
L3	-39.2	-33.4	-39.1	-33.4
L4	-39.2	-33.4	-39.1	-33.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-219. Time history of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

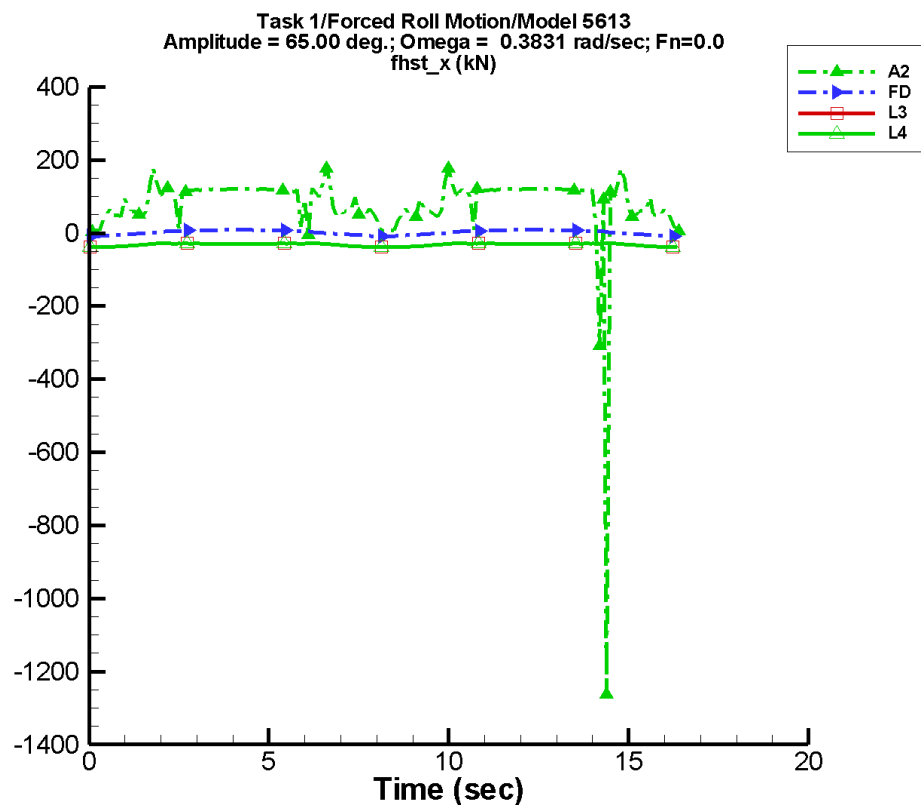
Table C–437. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	79.5	0.183	-28	47.2	-93
FD	-2.39	8.58E-03	-62	5.27	-90
L1	—	—	—	—	—
L3	-32.9	3.93E-03	-42	5.91	-93
L4	-32.9	3.93E-03	-42	5.91	-93
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–438. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	6.19E-02	177.	6.86	142.
FD	-8.83	3.05	-8.72	2.91
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.3
L4	-39.2	-27.3	-39.1	-27.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-220. Time history of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

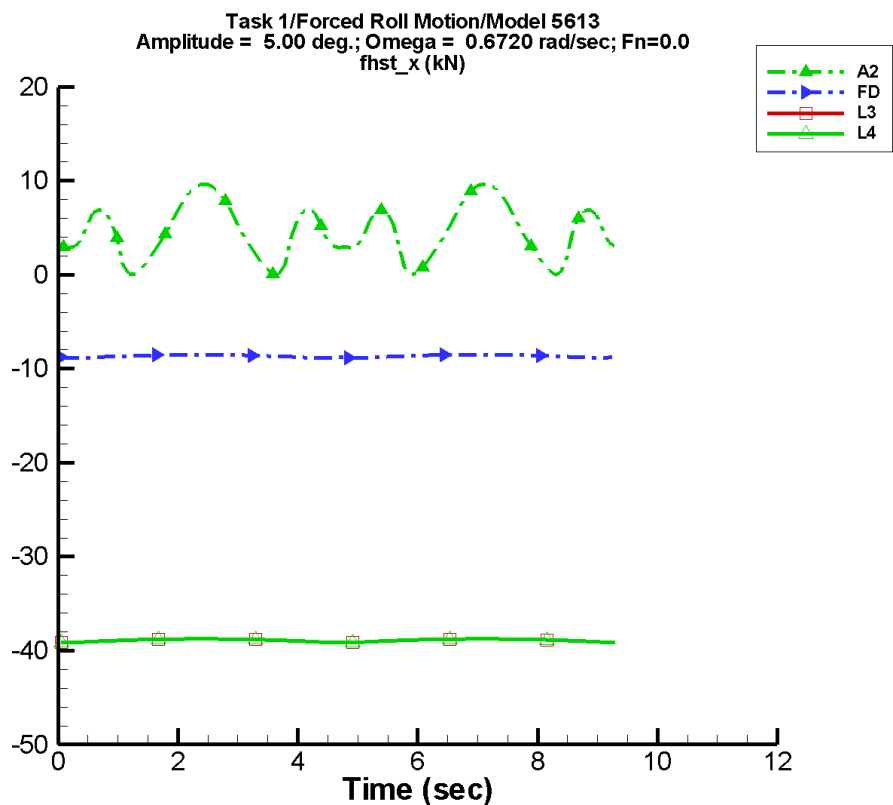
Table C–439. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	80.3	18.9	-50	46.0	-68
FD	1.77	8.12E-02	-57	8.24	-90
L1	—	—	—	—	—
L3	-31.8	0.223	-36	4.25	-89
L4	-31.8	0.223	-36	4.25	-89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–440. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.26E+03	177.	-139.	136.
FD	-8.82	8.60	-8.50	8.50
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.9
L4	-39.2	-27.3	-39.1	-27.9
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-221. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

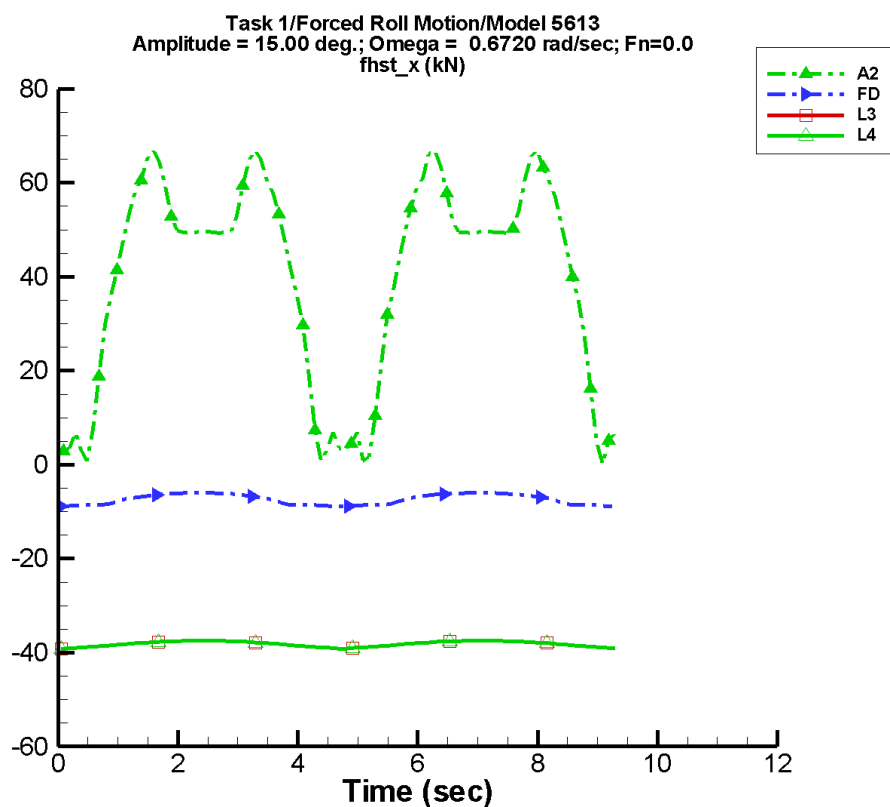
Table C–441. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.48	0.224	-175	1.15	-109
FD	-8.66	6.21E-04	-16	0.170	-90
L1	—	—	—	—	—
L3	-38.9	1.01E-03	-169	0.179	-93
L4	-38.9	1.01E-03	-169	0.179	-93
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–442. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.34E-02	9.65	1.77	8.87
FD	-8.84	-8.50	-8.82	-8.50
L1	—	—	—	—
L3	-39.2	-38.8	-39.1	-38.8
L4	-39.2	-38.8	-39.1	-38.8
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-222. Time history of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

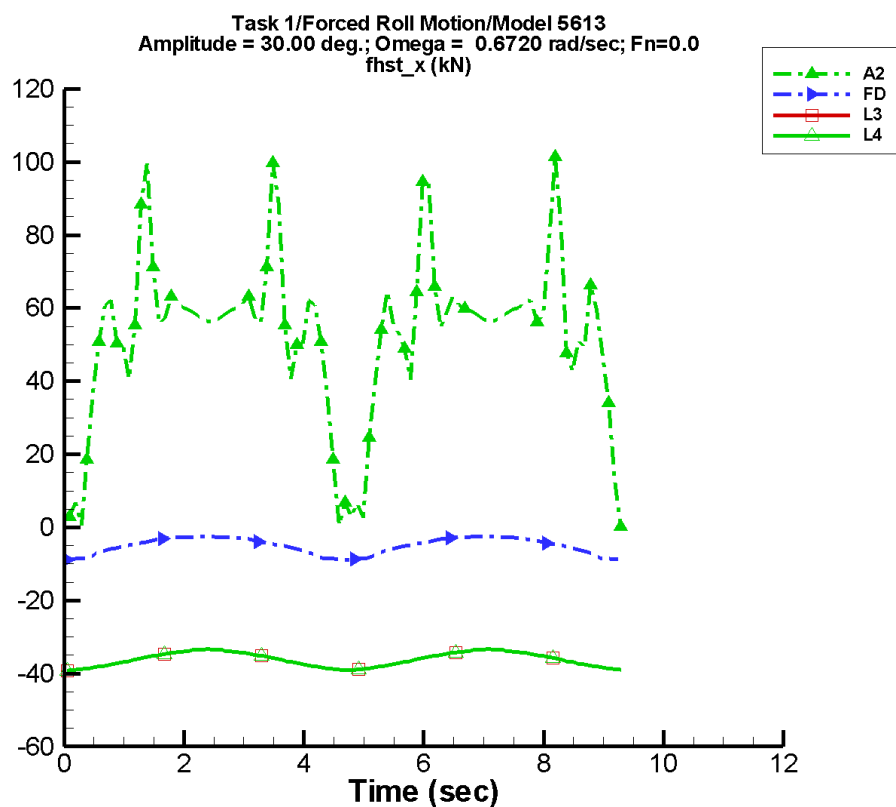
Table C-443. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	39.9	1.30	-1	26.9	-94
FD	-7.39	3.91E-03	-19	1.51	-90
L1	—	—	—	—	—
L3	-38.2	2.24E-03	-164	0.780	-94
L4	-38.2	2.24E-03	-164	0.780	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-444. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.45E-02	67.0	2.54	61.1
FD	-8.84	-5.98	-8.79	-6.00
L1	—	—	—	—
L3	-39.2	-37.5	-39.1	-37.5
L4	-39.2	-37.5	-39.1	-37.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-223. Time history of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

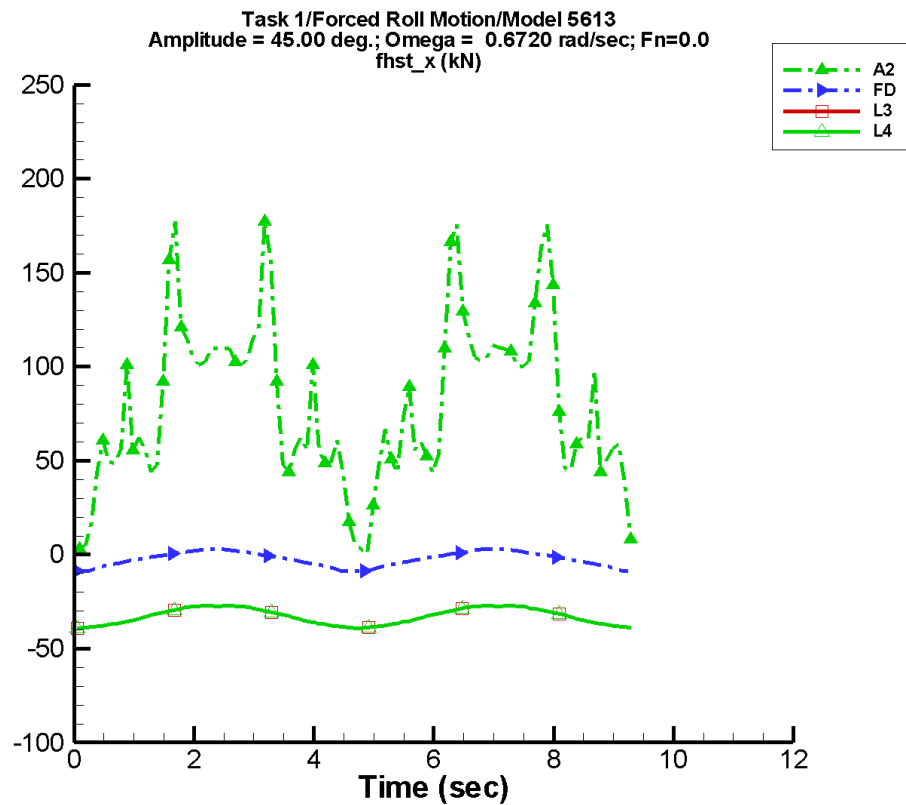
Table C–445. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	52.5	1.20	-15	19.5	-92
FD	-5.11	3.95E-02	-29	3.03	-89
L1	—	—	—	—	—
L3	-36.2	1.86E-03	-114	2.69	-94
L4	-36.2	1.86E-03	-114	2.69	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–446. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	0.249	101.	8.35	67.4
FD	-8.84	-2.55	-8.71	-2.58
L1	—	—	—	—
L3	-39.2	-33.4	-39.1	-33.4
L4	-39.2	-33.4	-39.1	-33.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-224. Time history of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

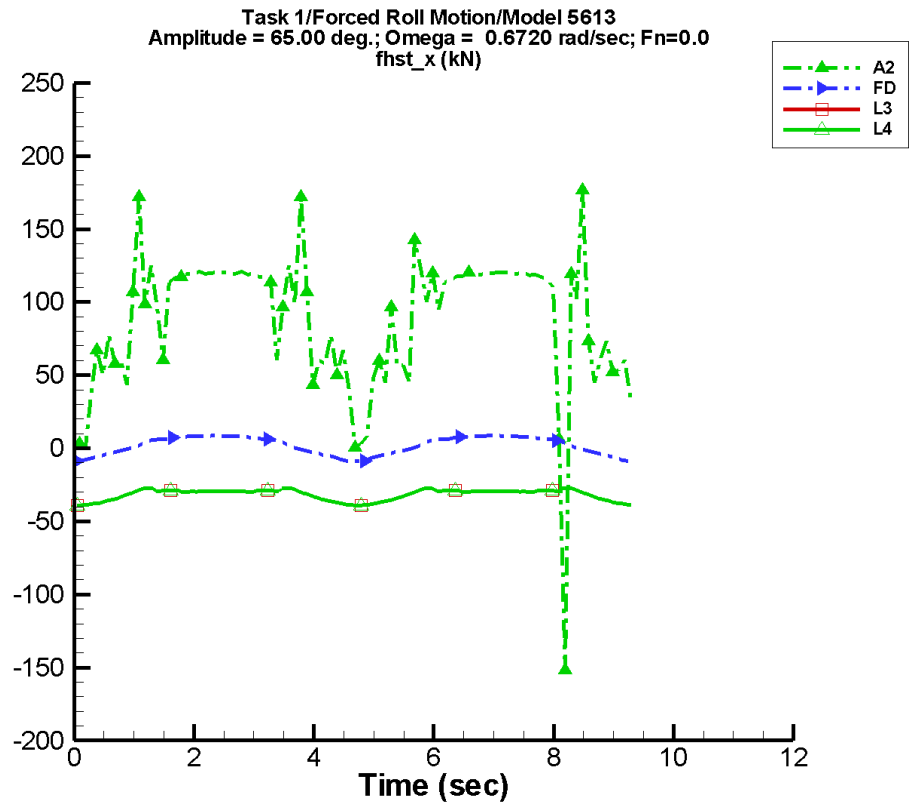
Table C-447. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	80.1	0.614	14	48.8	-96
FD	-2.39	1.41E-02	-30	5.29	-90
L1	—	—	—	—	—
L3	-32.9	4.68E-03	-77	5.91	-94
L4	-32.9	4.68E-03	-77	5.91	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-448. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.93E-02	177.	12.7	136.
FD	-8.83	3.05	-8.45	2.72
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.3
L4	-39.2	-27.3	-39.1	-27.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-225. Time history of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

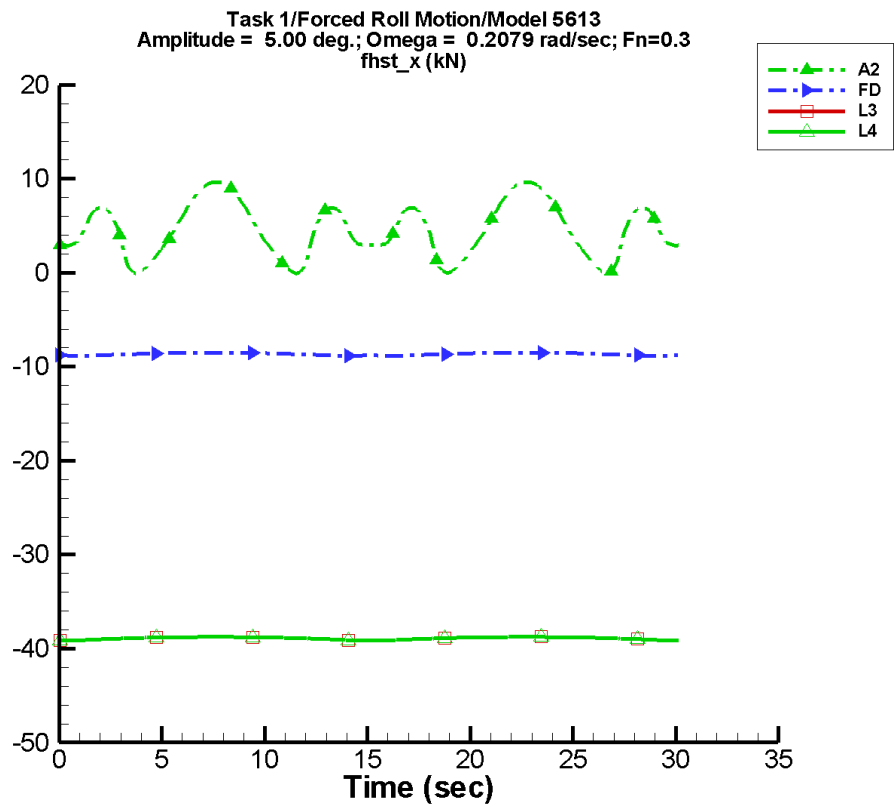
Table C–449. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	87.4	7.31	-51	40.9	-86
FD	1.70	0.114	-28	8.28	-89
L1	—	—	—	—	—
L3	-31.8	7.67E-02	164	4.23	-90
L4	-31.8	7.67E-02	164	4.23	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–450. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-152.	177.	15.8	124.
FD	-8.85	8.60	-8.04	8.51
L1	—	—	—	—
L3	-39.2	-27.3	-39.0	-28.3
L4	-39.2	-27.3	-39.0	-28.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-226. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

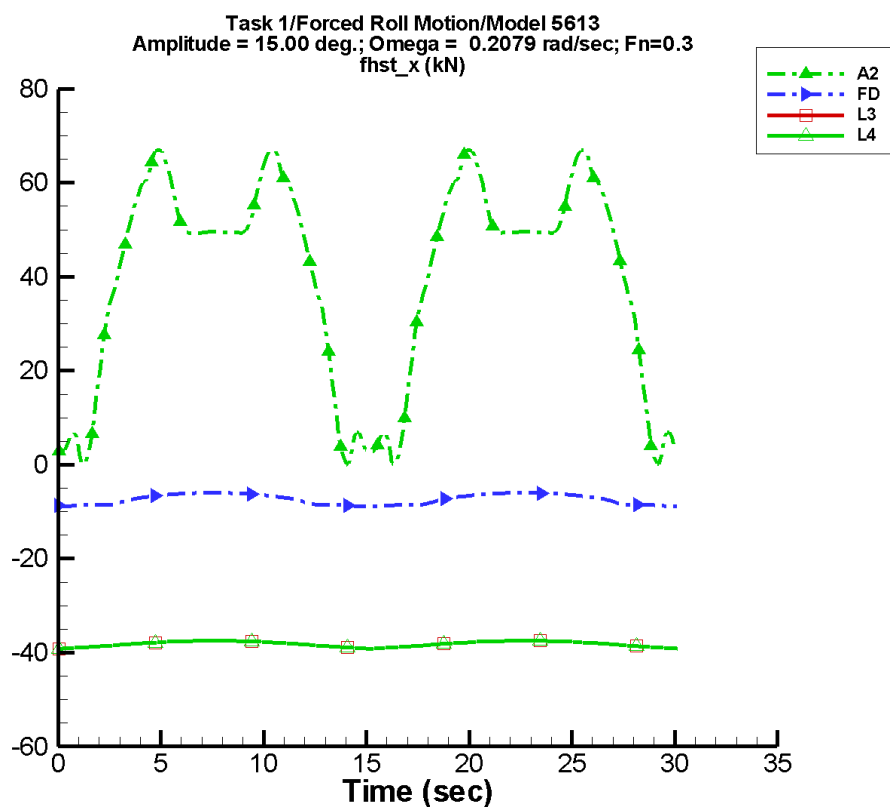
Table C–451. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.57	4.73E-02	-148	1.34	-101
FD	-8.65	2.48E-04	11	0.171	-90
L1	—	—	—	—	—
L3	-38.9	3.64E-03	-63	0.177	-91
L4	-38.9	3.64E-03	-63	0.177	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–452. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.28E-02	9.66	0.127	9.58
FD	-8.84	-8.50	-8.84	-8.50
L1	—	—	—	—
L3	-39.2	-38.8	-39.2	-38.8
L4	-39.2	-38.8	-39.2	-38.8
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-227. Time history of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

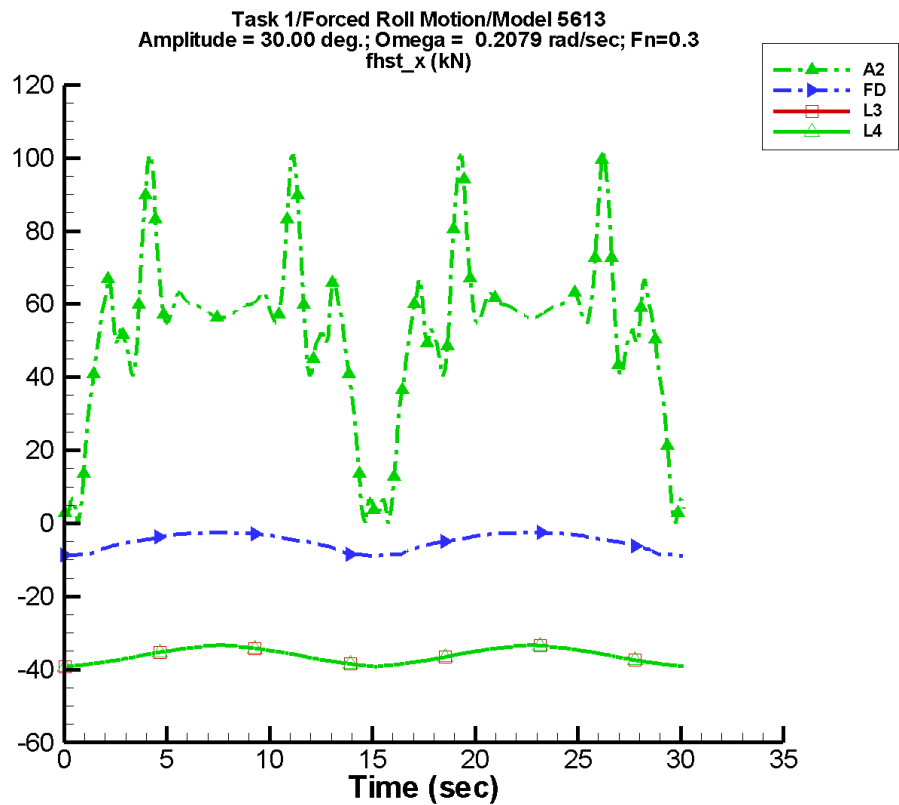
Table C–453. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	39.4	0.259	6	25.7	-89
FD	-7.39	1.50E-03	47	1.52	-90
L1	—	—	—	—	—
L3	-38.2	7.27E-03	-60	0.775	-91
L4	-38.2	7.27E-03	-60	0.775	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–454. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-4.04E-02	67.0	2.72	65.8
FD	-8.84	-5.98	-8.82	-5.98
L1	—	—	—	—
L3	-39.2	-37.5	-39.1	-37.5
L4	-39.2	-37.5	-39.1	-37.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-228. Time history of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

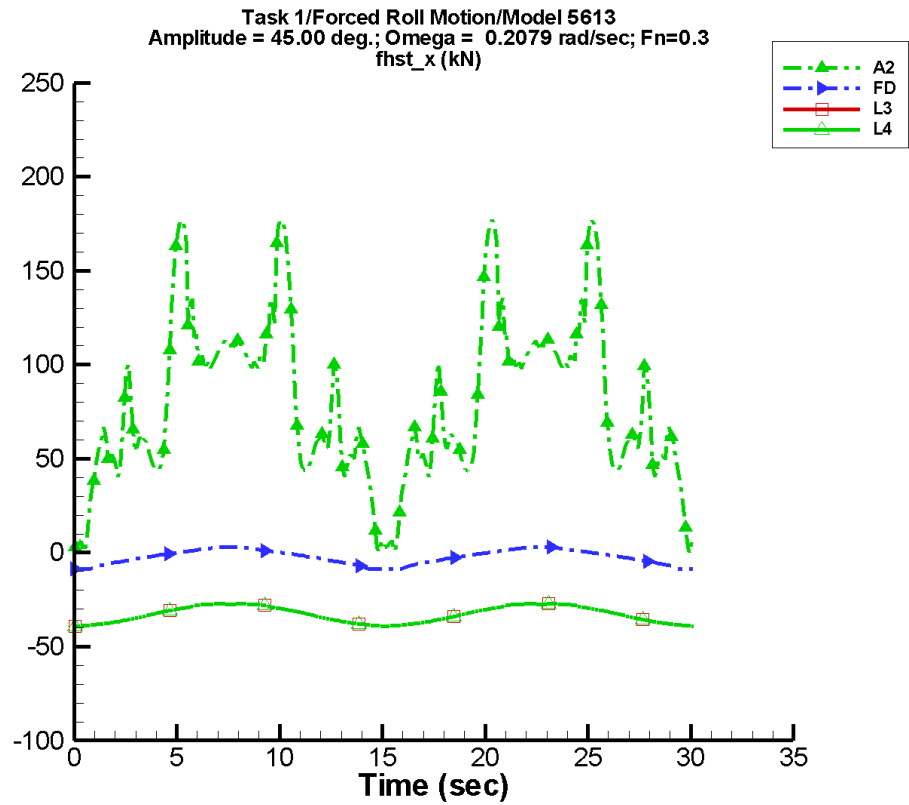
Table C–455. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	52.1	0.378	-20	18.4	-87
FD	-5.10	1.34E-02	2	3.06	-89
L1	—	—	—	—	—
L3	-36.2	5.61E-03	-63	2.69	-91
L4	-36.2	5.61E-03	-63	2.69	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–456. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.33E-02	101.	3.14	88.9
FD	-8.84	-2.55	-8.80	-2.56
L1	—	—	—	—
L3	-39.2	-33.4	-39.1	-33.4
L4	-39.2	-33.4	-39.1	-33.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-229. Time history of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

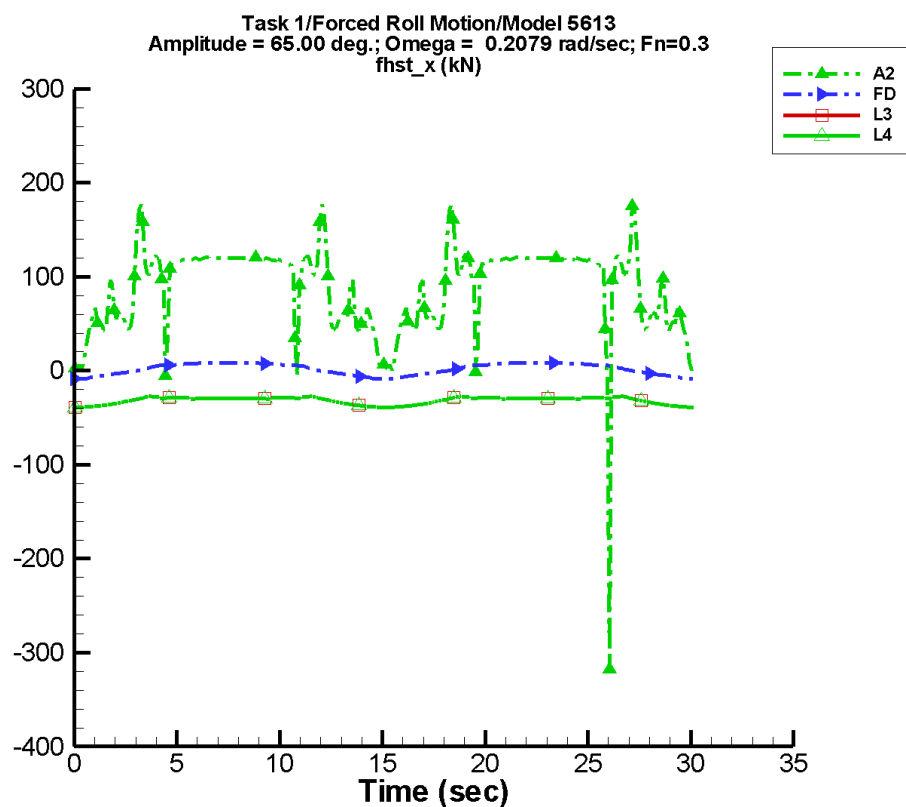
Table C–457. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	79.5	0.338	4	47.2	-91
FD	-2.40	6.31E-03	-34	5.28	-90
L1	—	—	—	—	—
L3	-32.9	6.19E-03	-62	5.91	-91
L4	-32.9	6.19E-03	-62	5.91	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–458. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-4.16E-02	177.	2.71	165.
FD	-8.84	3.06	-8.80	3.02
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.3
L4	-39.2	-27.3	-39.1	-27.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-230. Time history of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

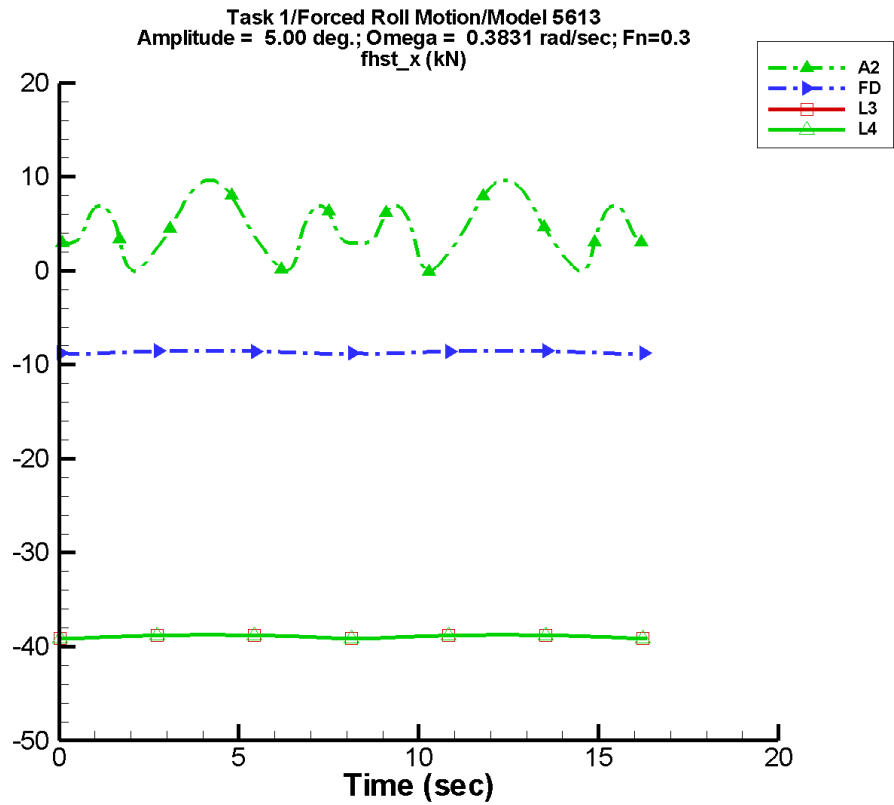
Table C–459. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	88.7	3.20	-44	39.8	-86
FD	1.74	3.69E-02	5	8.36	-89
L1	—	—	—	—	—
L3	-31.7	0.221	-61	4.11	-91
L4	-31.7	0.221	-61	4.11	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–460. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-317.	177.	2.64	136.
FD	-8.84	8.60	-8.82	8.56
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.4
L4	-39.2	-27.3	-39.1	-27.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-231. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

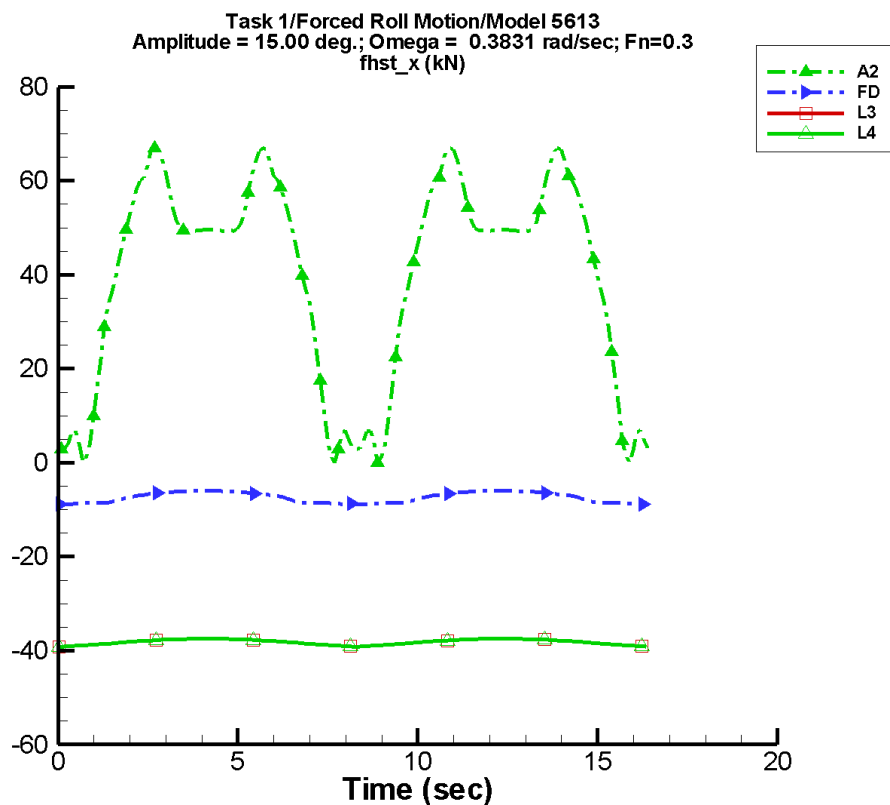
Table C–461. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.58	3.03E-02	-115	1.37	-103
FD	-8.65	6.32E-04	-76	0.171	-90
L1	—	—	—	—	—
L3	-38.9	3.18E-03	-35	0.180	-91
L4	-38.9	3.18E-03	-35	0.180	-91
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–462. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $\text{Fn} = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.32E-02	9.66	0.611	9.43
FD	-8.84	-8.50	-8.83	-8.50
L1	—	—	—	—
L3	-39.2	-38.8	-39.2	-38.8
L4	-39.2	-38.8	-39.2	-38.8
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-232. Time history of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

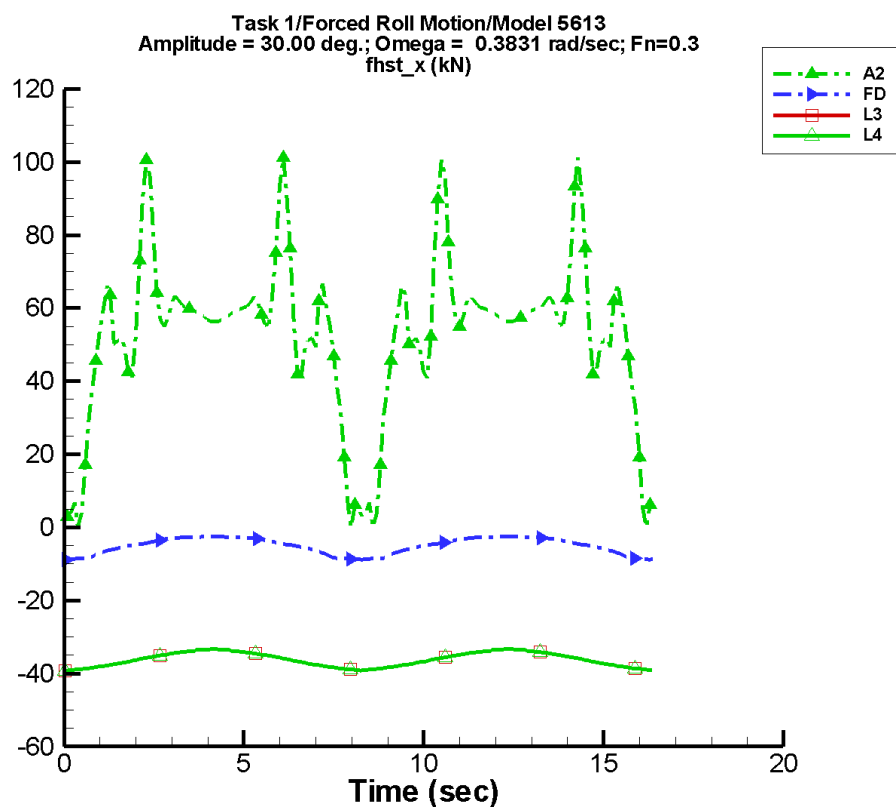
Table C-463. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	39.4	0.144	13	25.6	-91
FD	-7.38	7.64E-03	-53	1.51	-90
L1	—	—	—	—	—
L3	-38.2	7.69E-03	-36	0.780	-92
L4	-38.2	7.69E-03	-36	0.780	-92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-464. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.34E-02	67.0	3.38	63.6
FD	-8.84	-5.98	-8.81	-6.00
L1	—	—	—	—
L3	-39.2	-37.5	-39.1	-37.5
L4	-39.2	-37.5	-39.1	-37.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-233. Time history of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

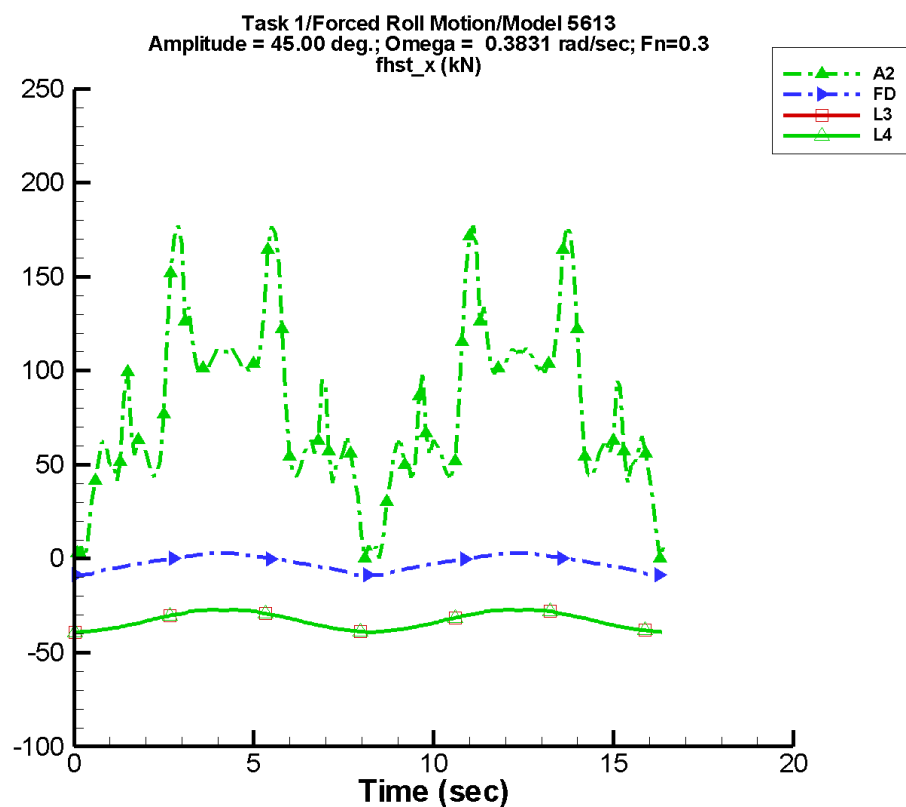
Table C–465. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	52.1	0.284	-29	18.3	-89
FD	-5.09	2.02E-02	-62	3.02	-90
L1	—	—	—	—	—
L3	-36.2	3.65E-03	-60	2.69	-93
L4	-36.2	3.65E-03	-60	2.69	-93
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–466. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.21E-02	101.	2.62	75.4
FD	-8.84	-2.55	-8.80	-2.58
L1	—	—	—	—
L3	-39.2	-33.4	-39.1	-33.4
L4	-39.2	-33.4	-39.1	-33.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-234. Time history of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

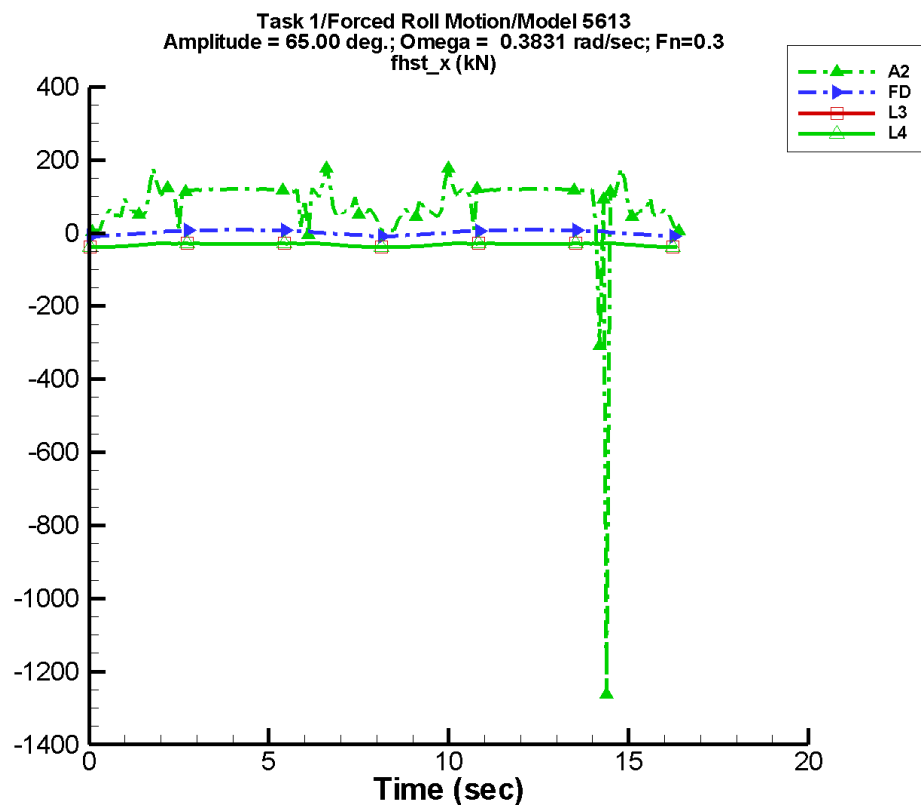
Table C-467. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	79.5	0.183	-28	47.2	-93
FD	-2.39	8.57E-03	-62	5.27	-90
L1	—	—	—	—	—
L3	-32.9	3.95E-03	-42	5.91	-93
L4	-32.9	3.95E-03	-42	5.91	-93
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-468. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	6.19E-02	177.	6.86	142.
FD	-8.83	3.05	-8.72	2.91
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.3
L4	-39.2	-27.3	-39.1	-27.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-235. Time history of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

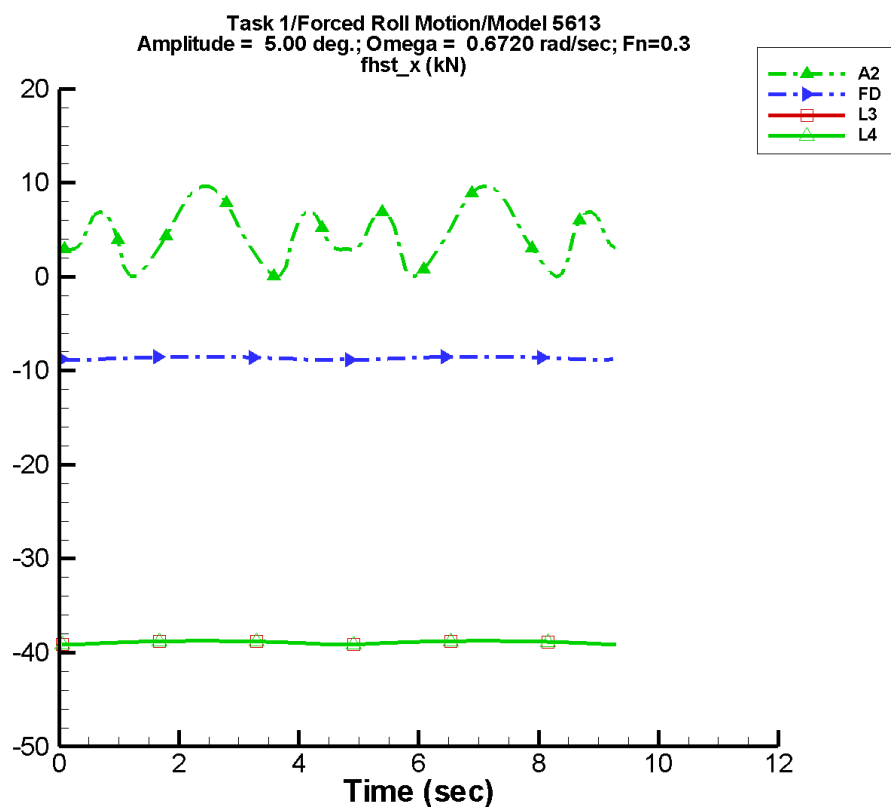
Table C-469. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	80.3	18.9	-50	46.0	-68
FD	1.77	8.13E-02	-57	8.24	-90
L1	—	—	—	—	—
L3	-31.8	0.223	-36	4.25	-89
L4	-31.8	0.223	-36	4.25	-89
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-470. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.26E+03	177.	-139.	136.
FD	-8.82	8.60	-8.50	8.50
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.9
L4	-39.2	-27.3	-39.1	-27.9
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-236. Time history of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

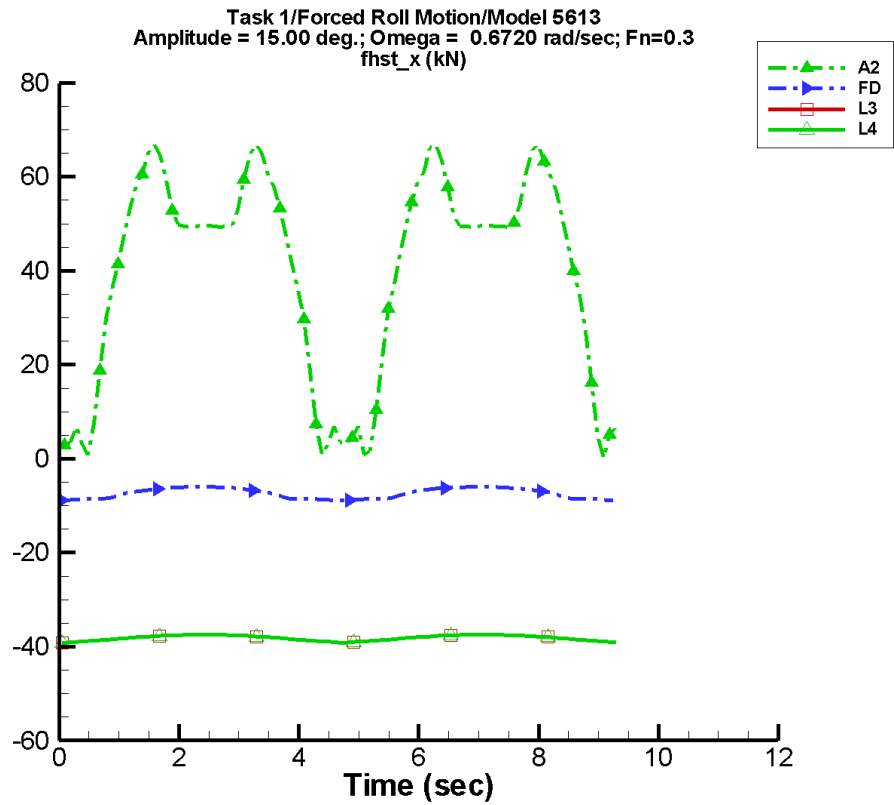
Table C–471. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.48	0.224	-175	1.15	-109
FD	-8.66	6.07E-04	-14	0.170	-90
L1	—	—	—	—	—
L3	-38.9	1.02E-03	-168	0.179	-93
L4	-38.9	1.02E-03	-168	0.179	-93
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–472. Minimum and maximum of F_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-5.34E-02	9.65	1.77	8.87
FD	-8.84	-8.50	-8.82	-8.50
L1	—	—	—	—
L3	-39.2	-38.8	-39.1	-38.8
L4	-39.2	-38.8	-39.1	-38.8
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-237. Time history of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

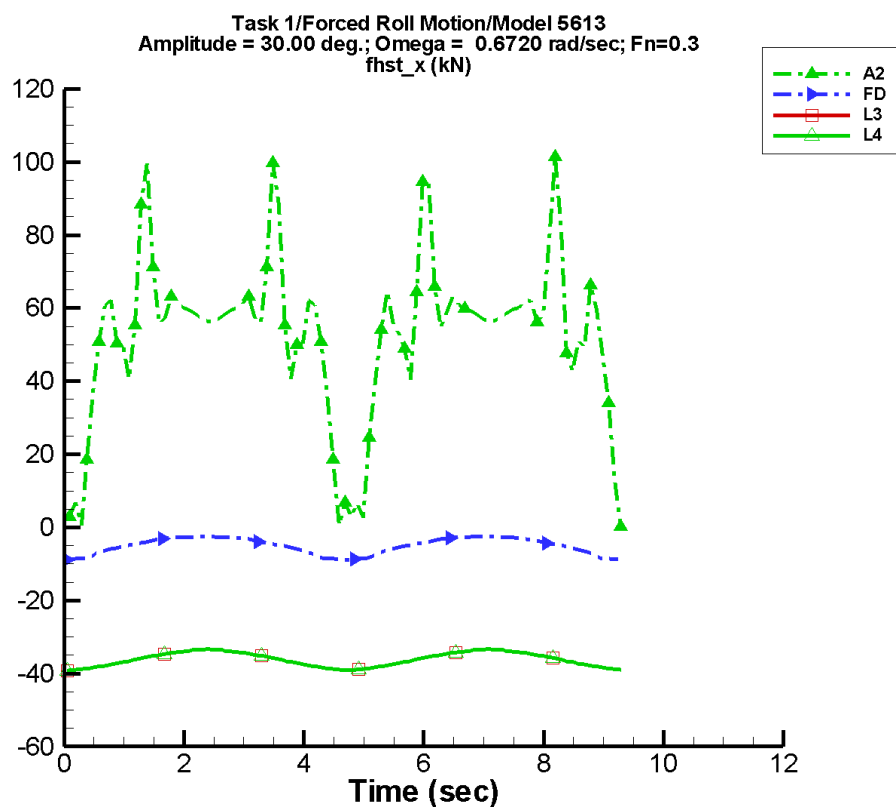
Table C–473. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	39.9	1.30	-1	26.9	-94
FD	-7.39	3.91E-03	-19	1.51	-90
L1	—	—	—	—	—
L3	-38.2	2.25E-03	-164	0.780	-94
L4	-38.2	2.25E-03	-164	0.780	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–474. Minimum and maximum of F_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	1.45E-02	67.0	2.54	61.1
FD	-8.84	-5.98	-8.79	-6.00
L1	—	—	—	—
L3	-39.2	-37.5	-39.1	-37.5
L4	-39.2	-37.5	-39.1	-37.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-238. Time history of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

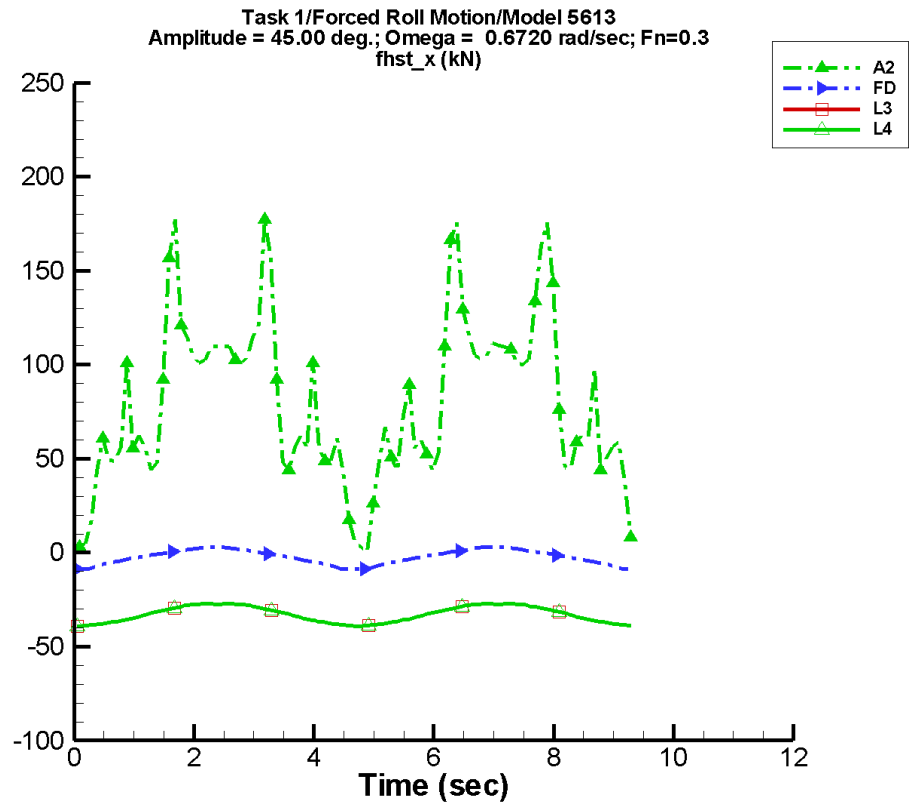
Table C–475. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	52.5	1.20	-15	19.5	-92
FD	-5.11	3.95E-02	-29	3.03	-89
L1	—	—	—	—	—
L3	-36.2	1.88E-03	-113	2.69	-94
L4	-36.2	1.88E-03	-113	2.69	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–476. Minimum and maximum of F_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	0.249	101.	8.35	67.4
FD	-8.84	-2.55	-8.71	-2.58
L1	—	—	—	—
L3	-39.2	-33.4	-39.1	-33.4
L4	-39.2	-33.4	-39.1	-33.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-239. Time history of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

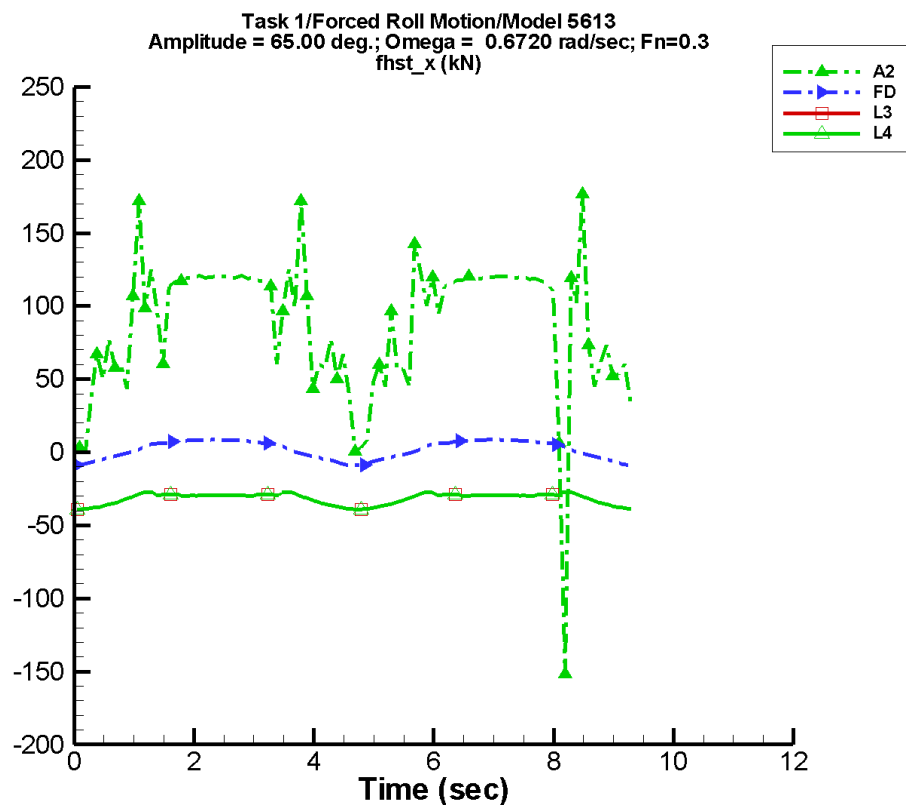
Table C-477. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	80.1	0.614	14	48.8	-96
FD	-2.39	1.41E-02	-30	5.29	-90
L1	—	—	—	—	—
L3	-32.9	4.68E-03	-76	5.91	-94
L4	-32.9	4.68E-03	-76	5.91	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-478. Minimum and maximum of F_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-1.93E-02	177.	12.7	136.
FD	-8.83	3.05	-8.45	2.72
L1	—	—	—	—
L3	-39.2	-27.3	-39.1	-27.3
L4	-39.2	-27.3	-39.1	-27.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1, LAMP-1, NFA and NSHIPMO.

Figure C-240. Time history of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

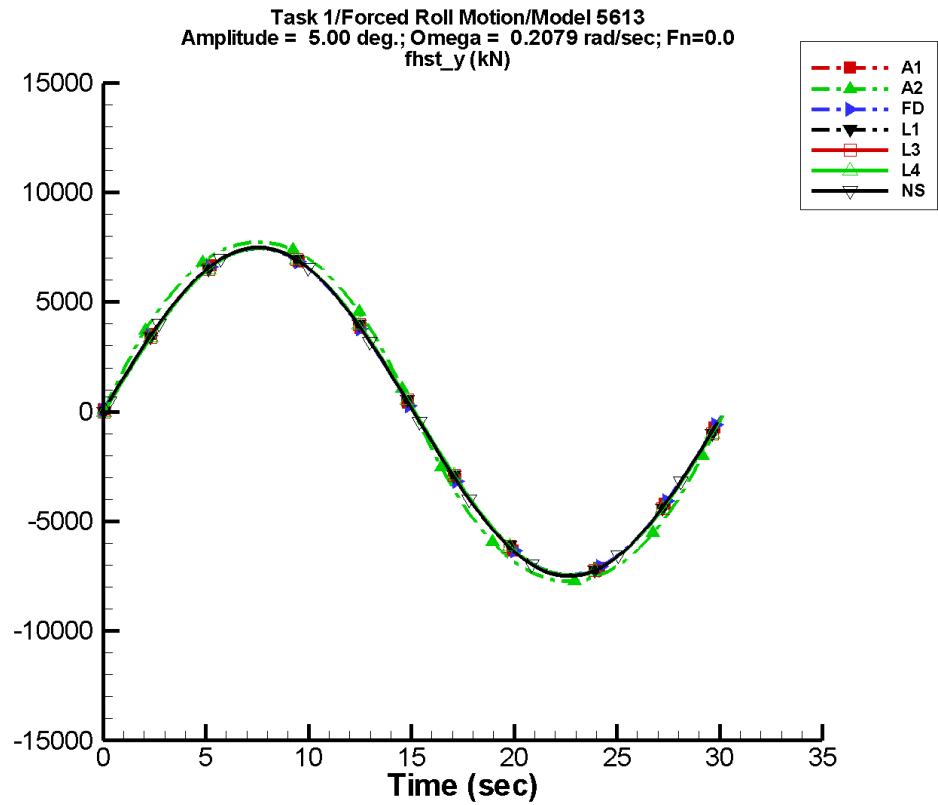
Table C–479. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	—	—	—	—	—
A2	87.4	7.31	-51	40.9	-86
FD	1.70	0.114	-28	8.28	-89
L1	—	—	—	—	—
L3	-31.8	7.67E-02	164	4.23	-90
L4	-31.8	7.67E-02	164	4.23	-90
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–480. Minimum and maximum of F_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	—	—	—	—
A2	-152.	177.	15.8	124.
FD	-8.85	8.60	-8.04	8.51
L1	—	—	—	—
L3	-39.2	-27.3	-39.0	-28.3
L4	-39.2	-27.3	-39.0	-28.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-241. Time history of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

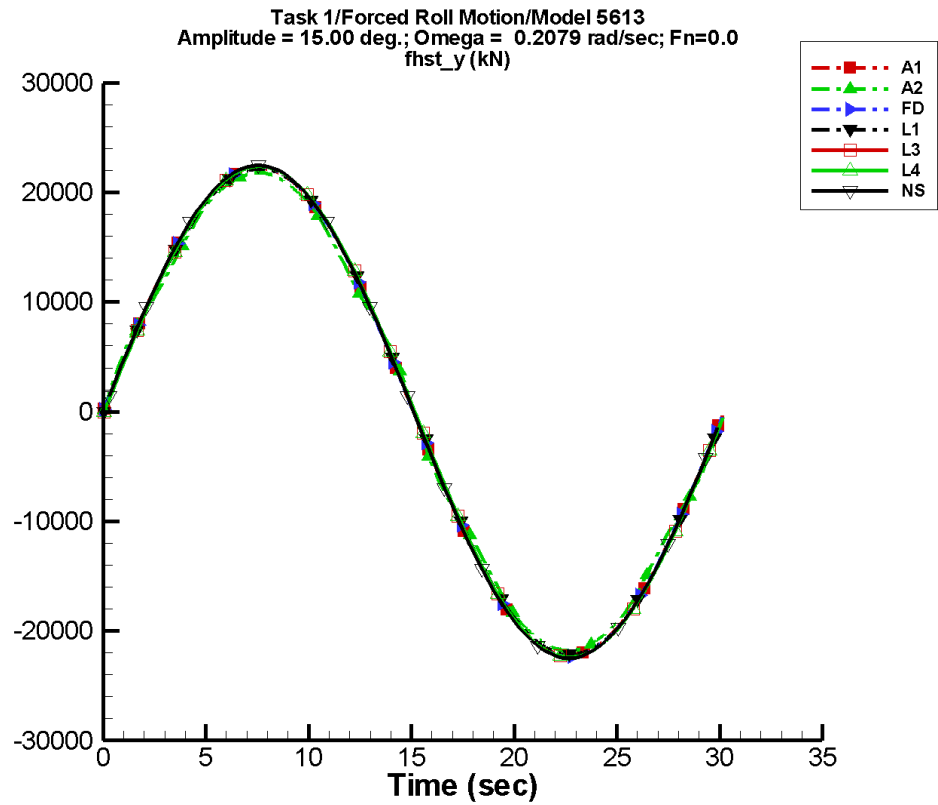
Table C–481. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	5.49E-02	7.49E+03	0	0.378	58
A2	9.59	8.04E+03	0	55.1	62
FD	-0.244	7.44E+03	0	1.09	-115
L1	0.147	7.46E+03	-1	0.567	87
L3	1.75E-02	7.47E+03	-1	6.56E-02	87
L4	1.75E-02	7.47E+03	-1	6.56E-02	87
NF	—	—	—	—	—
NS	8.19E-04	7.49E+03	0	9.31E-04	27

Table C–482. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.49E+03	7.49E+03	-7.48E+03	7.49E+03
A2	-7.74E+03	7.74E+03	-7.73E+03	7.74E+03
FD	-7.45E+03	7.45E+03	-7.44E+03	7.44E+03
L1	-7.46E+03	7.46E+03	-7.46E+03	7.46E+03
L3	-7.46E+03	7.47E+03	-7.46E+03	7.46E+03
L4	-7.46E+03	7.47E+03	-7.46E+03	7.46E+03
NF	—	—	—	—
NS	-7.49E+03	7.49E+03	-7.42E+03	7.42E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-242. Time history of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

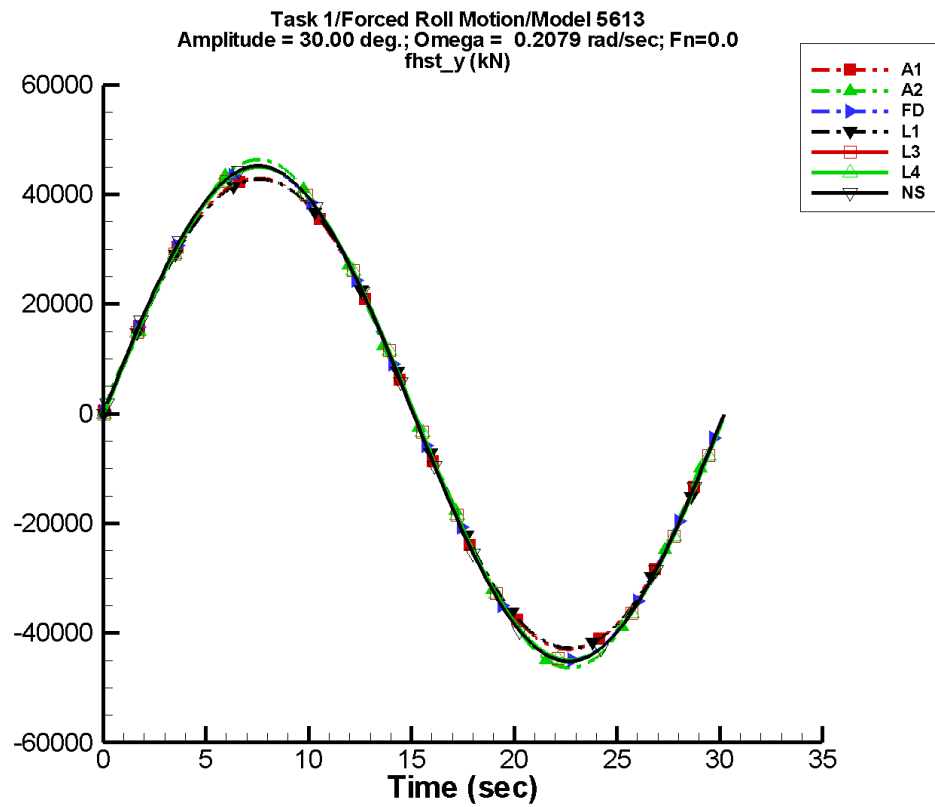
Table C–483. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.61	2.23E+04	0	10.1	59
A2	12.4	2.16E+04	0	33.7	127
FD	-0.183	2.23E+04	0	0.501	-95
L1	3.91	2.22E+04	-1	15.2	87
L3	0.199	2.24E+04	-1	0.604	87
L4	0.199	2.24E+04	-1	0.604	87
NF	—	—	—	—	—
NS	3.39E-04	2.25E+04	0	1.55E-03	-8

Table C–484. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.22E+04	2.22E+04	-2.22E+04	2.22E+04
A2	-2.18E+04	2.18E+04	-2.18E+04	2.18E+04
FD	-2.23E+04	2.23E+04	-2.23E+04	2.23E+04
L1	-2.21E+04	2.21E+04	-2.21E+04	2.21E+04
L3	-2.24E+04	2.24E+04	-2.24E+04	2.24E+04
L4	-2.24E+04	2.24E+04	-2.24E+04	2.24E+04
NF	—	—	—	—
NS	-2.25E+04	2.25E+04	-2.23E+04	2.23E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-243. Time history of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

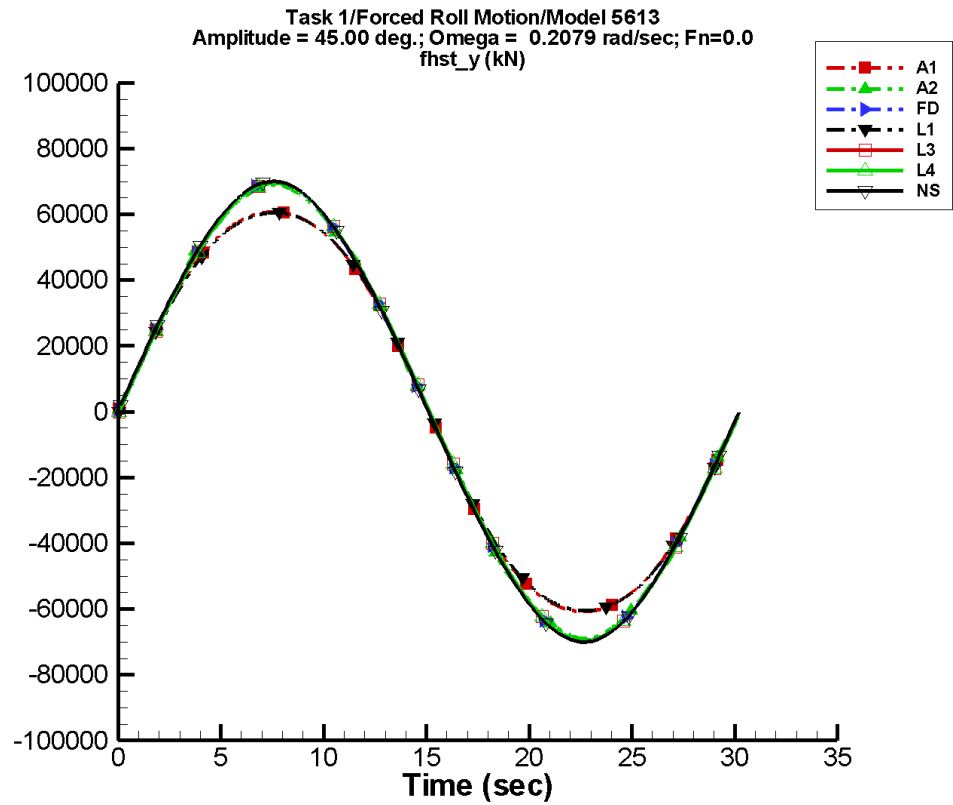
Table C–485. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	12.8	4.34E+04	0	79.9	59
A2	-17.5	4.55E+04	0	126.	-130
FD	-2.76	4.49E+04	0	14.5	-130
L1	30.6	4.33E+04	-1	120.	87
L3	-3.55	4.49E+04	-1	14.9	-92
L4	-3.55	4.49E+04	-1	14.9	-92
NF	—	—	—	—	—
NS	2.26E-03	4.51E+04	0	2.02E-03	6

Table C–486. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.30E+04	4.30E+04	-4.29E+04	4.30E+04
A2	-4.63E+04	4.63E+04	-4.63E+04	4.63E+04
FD	-4.50E+04	4.50E+04	-4.49E+04	4.49E+04
L1	-4.28E+04	4.28E+04	-4.28E+04	4.28E+04
L3	-4.50E+04	4.50E+04	-4.50E+04	4.50E+04
L4	-4.50E+04	4.50E+04	-4.50E+04	4.50E+04
NF	—	—	—	—
NS	-4.52E+04	4.52E+04	-4.50E+04	4.50E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-244. Time history of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

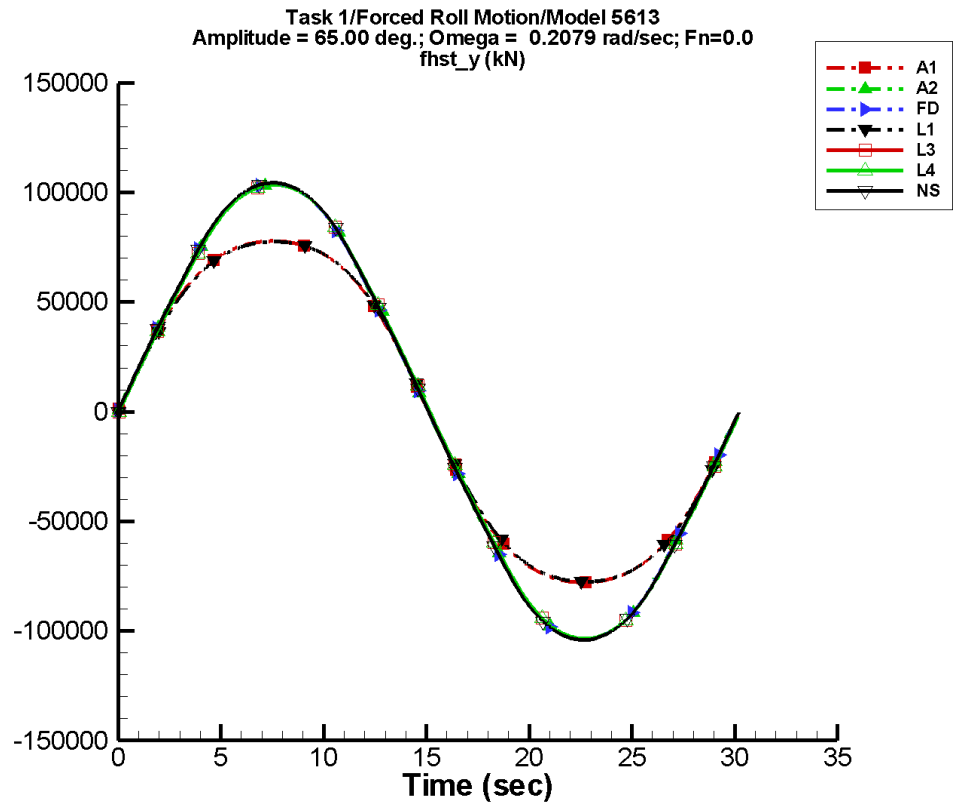
Table C–487. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	42.6	6.24E+04	0	264.	59
A2	-18.3	6.81E+04	0	64.9	-128
FD	-22.7	6.87E+04	0	121.	-128
L1	101.	6.22E+04	-1	398.	87
L3	-43.0	6.85E+04	-1	173.	-92
L4	-43.0	6.85E+04	-1	173.	-92
NF	—	—	—	—	—
NS	-0.276	6.90E+04	0	0.494	87

Table C–488. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.07E+04	6.07E+04	-6.07E+04	6.08E+04
A2	-6.89E+04	6.89E+04	-6.89E+04	6.89E+04
FD	-6.97E+04	6.97E+04	-6.96E+04	6.96E+04
L1	-6.05E+04	6.05E+04	-6.05E+04	6.05E+04
L3	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
L4	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
NF	—	—	—	—
NS	-7.00E+04	7.00E+04	-6.99E+04	6.99E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-245. Time history of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

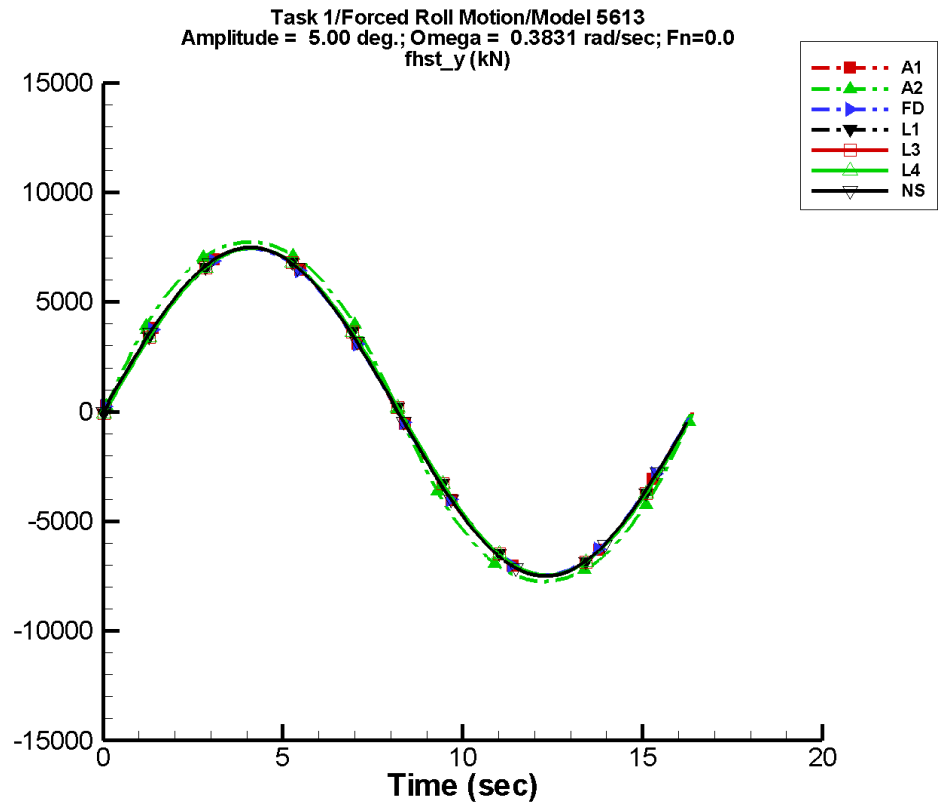
Table C–489. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	124.	8.25E+04	0	765.	59
A2	-54.6	1.03E+05	0	311.	-125
FD	-59.5	1.03E+05	0	313.	-116
L1	293.	8.23E+04	-1	1.15E+03	87
L3	-122.	1.02E+05	-1	472.	-93
L4	-122.	1.02E+05	-1	472.	-93
NF	—	—	—	—	—
NS	45.3	1.03E+05	0	72.7	-90

Table C–490. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.79E+04	7.79E+04	-7.78E+04	7.80E+04
A2	-1.04E+05	1.04E+05	-1.03E+05	1.04E+05
FD	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05
L1	-7.76E+04	7.76E+04	-7.75E+04	7.75E+04
L3	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
L4	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
NF	—	—	—	—
NS	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-246. Time history of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

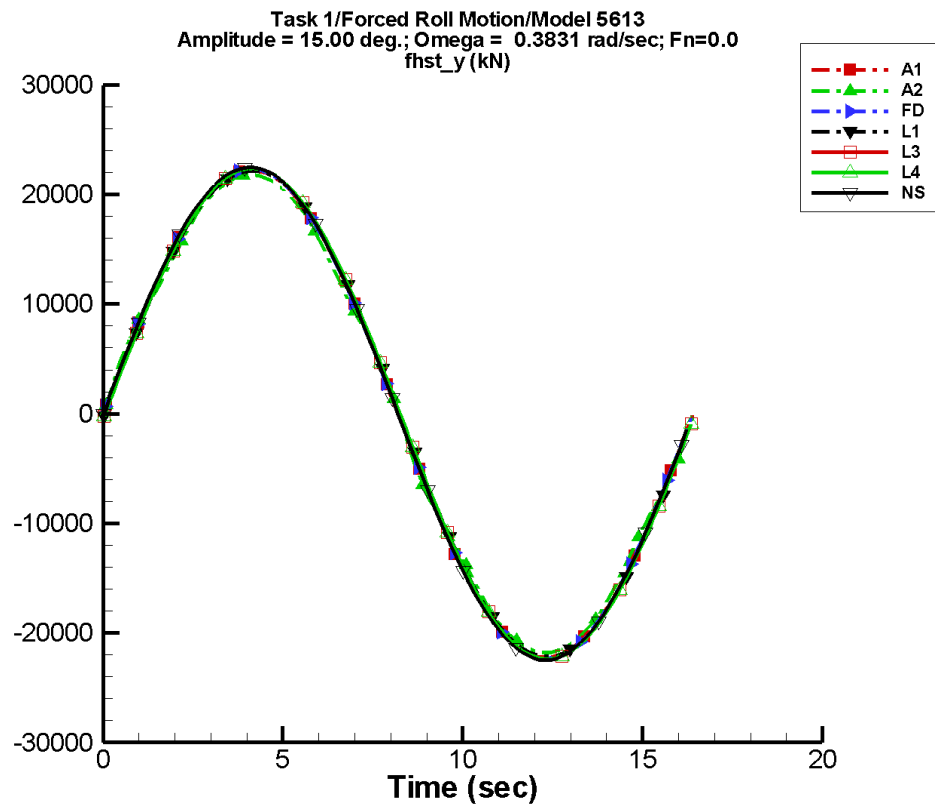
Table C–491. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.93E-02	7.49E+03	0	0.402	60
A2	8.95	8.04E+03	0	55.6	58
FD	-0.216	7.44E+03	0	1.40	-105
L1	0.227	7.46E+03	-1	0.357	147
L3	5.20E-02	7.46E+03	-1	5.28E-02	135
L4	5.20E-02	7.46E+03	-1	5.28E-02	135
NF	—	—	—	—	—
NS	-3.55E-04	7.49E+03	0	9.03E-04	-11

Table C–492. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.49E+03	7.49E+03	-7.46E+03	7.51E+03
A2	-7.74E+03	7.74E+03	-7.72E+03	7.77E+03
FD	-7.45E+03	7.45E+03	-7.42E+03	7.42E+03
L1	-7.46E+03	7.46E+03	-7.45E+03	7.45E+03
L3	-7.46E+03	7.46E+03	-7.45E+03	7.45E+03
L4	-7.46E+03	7.46E+03	-7.45E+03	7.45E+03
NF	—	—	—	—
NS	-7.49E+03	7.49E+03	-7.42E+03	7.42E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-247. Time history of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

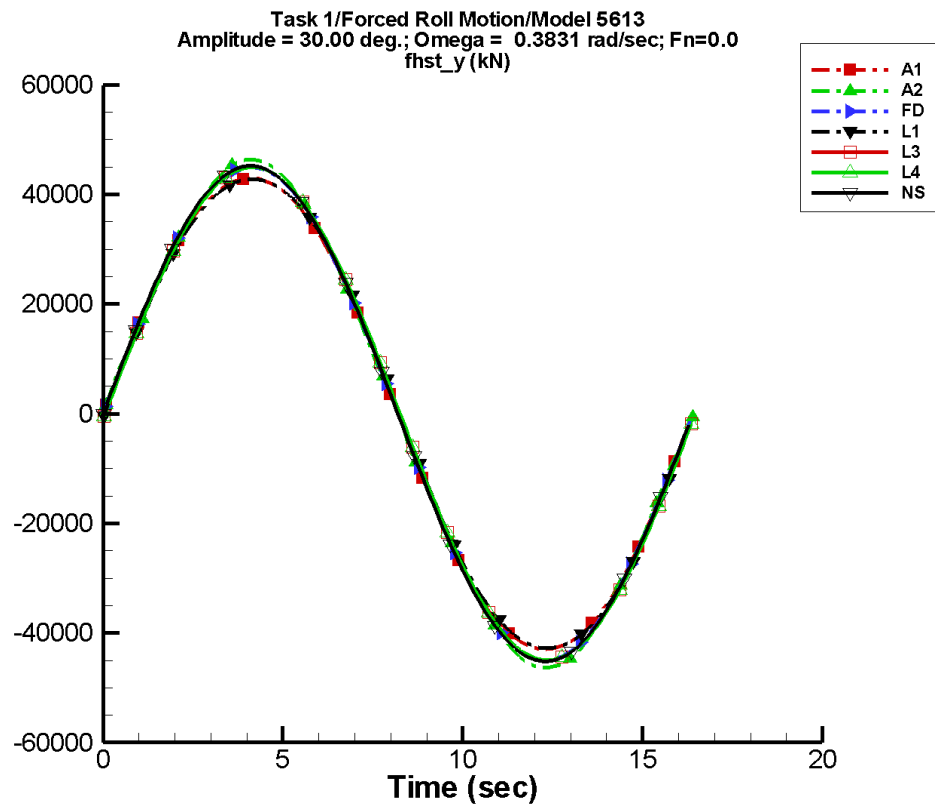
Table C–493. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.34	2.23E+04	0	10.8	60
A2	13.1	2.16E+04	0	33.4	127
FD	-0.198	2.23E+04	0	0.597	-86
L1	5.38	2.22E+04	-1	9.33	148
L3	0.280	2.24E+04	-1	0.403	140
L4	0.280	2.24E+04	-1	0.403	140
NF	—	—	—	—	—
NS	-6.79E-04	2.25E+04	0	2.73E-03	-6

Table C–494. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.22E+04	2.22E+04	-2.22E+04	2.23E+04
A2	-2.18E+04	2.18E+04	-2.17E+04	2.19E+04
FD	-2.23E+04	2.23E+04	-2.23E+04	2.23E+04
L1	-2.21E+04	2.21E+04	-2.21E+04	2.21E+04
L3	-2.24E+04	2.24E+04	-2.24E+04	2.24E+04
L4	-2.24E+04	2.24E+04	-2.24E+04	2.24E+04
NF	—	—	—	—
NS	-2.25E+04	2.25E+04	-2.23E+04	2.23E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-248. Time history of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

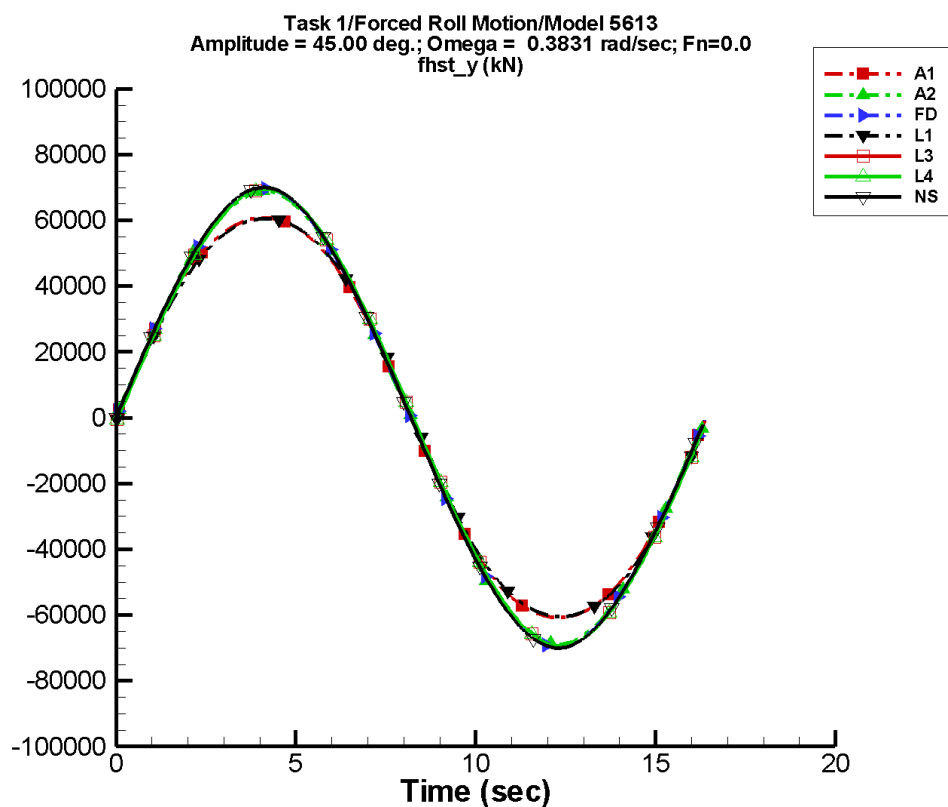
Table C–495. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	10.6	4.34E+04	0	85.4	60
A2	-14.9	4.55E+04	0	131.	-132
FD	-3.22	4.49E+04	0	20.5	-102
L1	42.1	4.32E+04	-1	73.5	148
L3	-5.46	4.49E+04	-1	9.60	-20
L4	-5.46	4.49E+04	-1	9.60	-20
NF	—	—	—	—	—
NS	8.82E-04	4.51E+04	0	6.05E-03	-106

Table C–496. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.30E+04	4.30E+04	-4.28E+04	4.31E+04
A2	-4.63E+04	4.63E+04	-4.61E+04	4.64E+04
FD	-4.50E+04	4.50E+04	-4.48E+04	4.48E+04
L1	-4.28E+04	4.28E+04	-4.27E+04	4.27E+04
L3	-4.50E+04	4.50E+04	-4.49E+04	4.49E+04
L4	-4.50E+04	4.50E+04	-4.49E+04	4.49E+04
NF	—	—	—	—
NS	-4.52E+04	4.52E+04	-4.50E+04	4.50E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-249. Time history of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

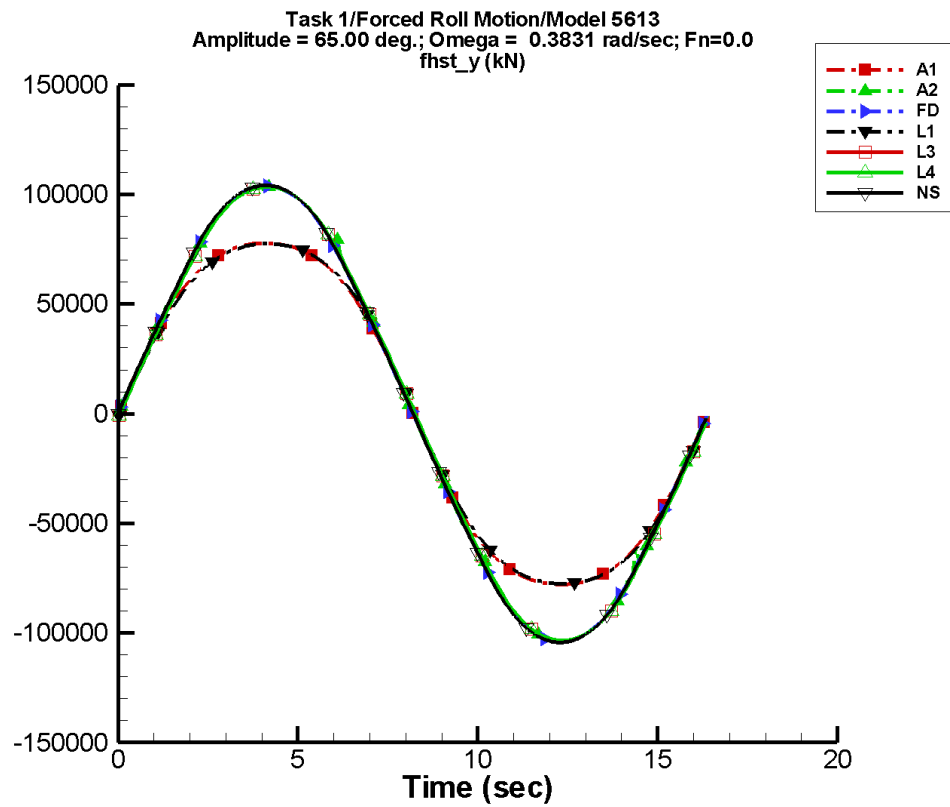
Table C–497. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	35.2	6.24E+04	0	282.	60
A2	-17.0	6.81E+04	0	68.8	-136
FD	-25.8	6.87E+04	0	169.	-103
L1	139.	6.20E+04	-1	243.	148
L3	-62.6	6.86E+04	-1	109.	-24
L4	-62.6	6.86E+04	-1	109.	-24
NF	—	—	—	—	—
NS	-0.272	6.90E+04	0	0.501	91

Table C–498. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.07E+04	6.07E+04	-6.06E+04	6.09E+04
A2	-6.89E+04	6.89E+04	-6.86E+04	6.90E+04
FD	-6.97E+04	6.97E+04	-6.94E+04	6.94E+04
L1	-6.05E+04	6.05E+04	-6.04E+04	6.04E+04
L3	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
L4	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
NF	—	—	—	—
NS	-7.00E+04	7.00E+04	-6.99E+04	6.99E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-250. Time history of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

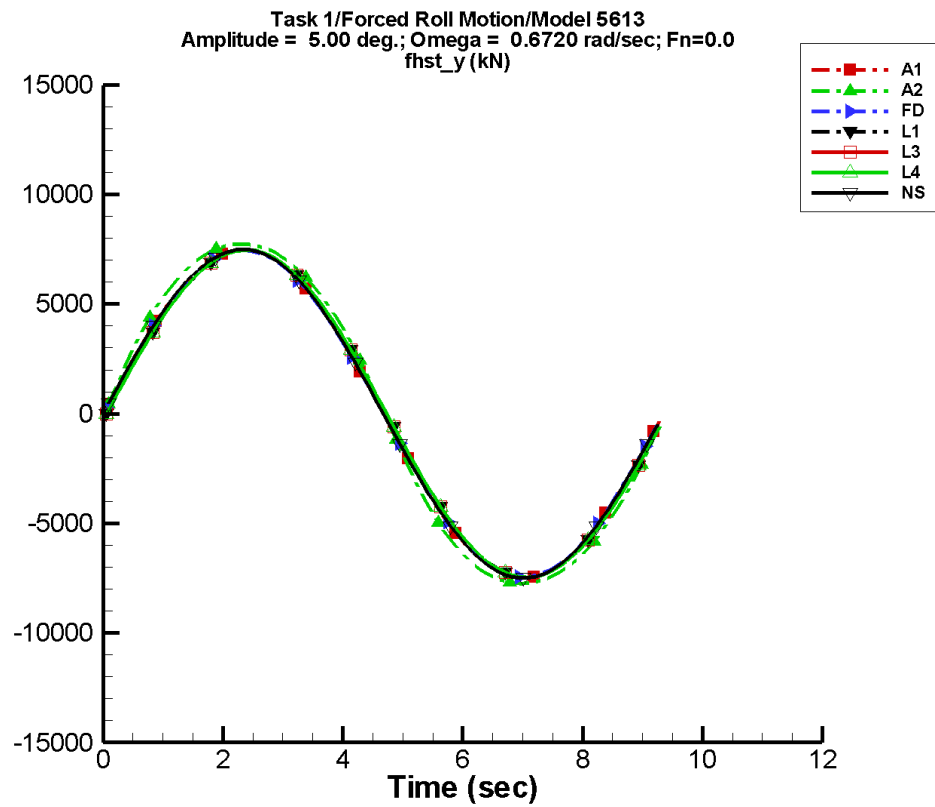
Table C–499. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	103.	8.25E+04	0	817.	61
A2	-80.2	1.03E+05	0	199.	-71
FD	-51.0	1.03E+05	0	404.	-108
L1	401.	8.19E+04	-1	702.	148
L3	-147.	1.03E+05	-1	276.	-39
L4	-147.	1.03E+05	-1	276.	-39
NF	—	—	—	—	—
NS	-27.9	1.03E+05	0	45.8	90

Table C–500. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.79E+04	7.79E+04	-7.77E+04	7.81E+04
A2	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
FD	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
L1	-7.76E+04	7.76E+04	-7.75E+04	7.75E+04
L3	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
L4	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
NF	—	—	—	—
NS	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-251. Time history of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

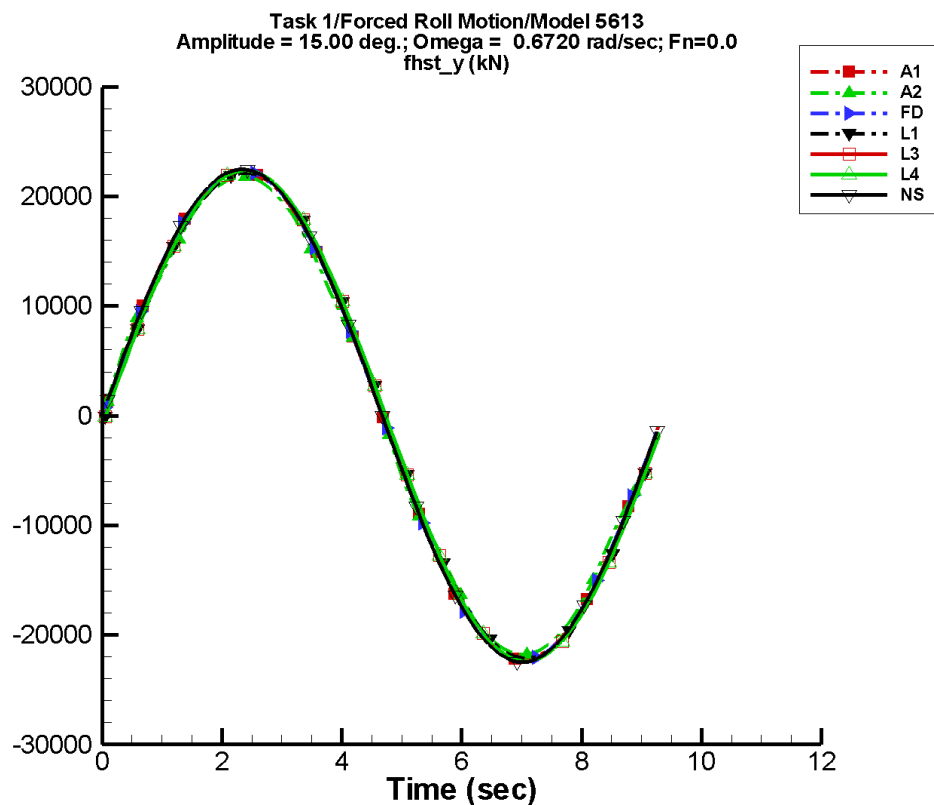
Table C–501. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.112	7.49E+03	0	0.288	41
A2	18.0	8.06E+03	0	40.2	36
FD	-0.538	7.44E+03	0	1.01	-44
L1	0.106	7.46E+03	-2	0.499	55
L3	0.108	7.46E+03	-2	5.72E-02	58
L4	0.108	7.46E+03	-2	5.72E-02	58
NF	—	—	—	—	—
NS	-5.01E-04	7.49E+03	0	1.09E-03	68

Table C–502. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.49E+03	7.49E+03	-7.40E+03	7.40E+03
A2	-7.74E+03	7.74E+03	-7.68E+03	7.68E+03
FD	-7.45E+03	7.45E+03	-7.41E+03	7.36E+03
L1	-7.46E+03	7.46E+03	-7.43E+03	7.43E+03
L3	-7.46E+03	7.46E+03	-7.43E+03	7.44E+03
L4	-7.46E+03	7.46E+03	-7.43E+03	7.44E+03
NF	—	—	—	—
NS	-7.49E+03	7.49E+03	-7.42E+03	7.42E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-252. Time history of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

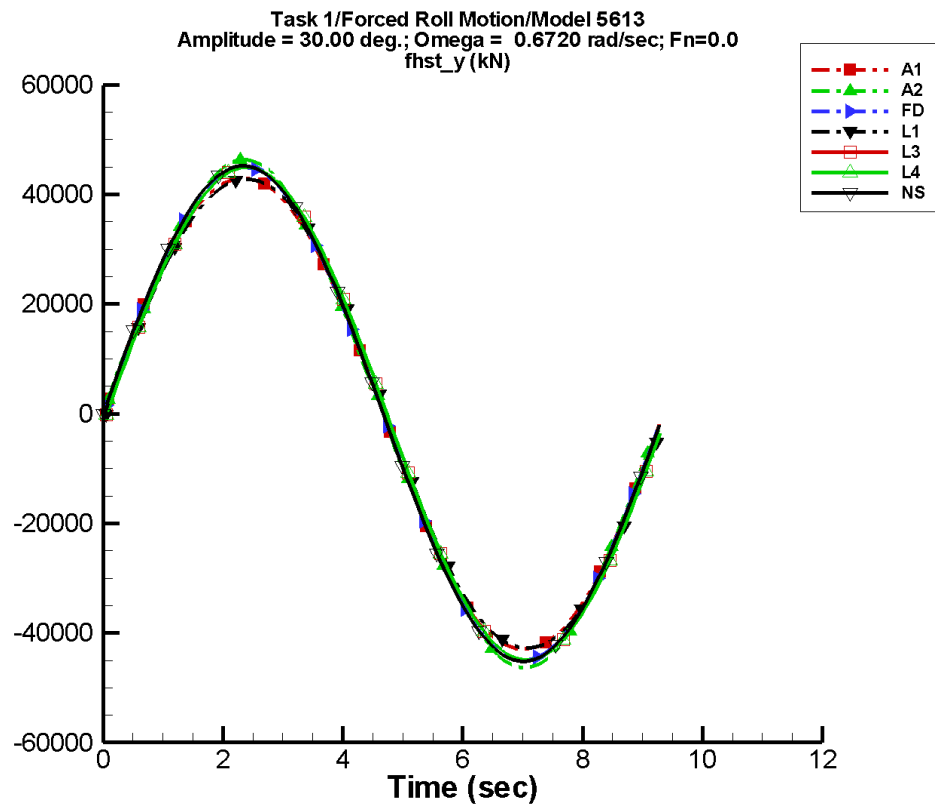
Table C–503. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	3.19	2.23E+04	0	7.59	44
A2	6.11	2.16E+04	0	46.3	114
FD	-0.299	2.23E+04	0	0.463	-63
L1	0.255	2.22E+04	-2	13.5	55
L3	0.360	2.24E+04	-2	0.522	57
L4	0.360	2.24E+04	-2	0.522	57
NF	—	—	—	—	—
NS	-2.84E-03	2.25E+04	0	2.94E-03	53

Table C–504. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.22E+04	2.22E+04	-2.20E+04	2.20E+04
A2	-2.18E+04	2.18E+04	-2.15E+04	2.15E+04
FD	-2.23E+04	2.23E+04	-2.22E+04	2.21E+04
L1	-2.21E+04	2.21E+04	-2.21E+04	2.21E+04
L3	-2.24E+04	2.24E+04	-2.23E+04	2.23E+04
L4	-2.24E+04	2.24E+04	-2.23E+04	2.23E+04
NF	—	—	—	—
NS	-2.25E+04	2.25E+04	-2.23E+04	2.23E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-253. Time history of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

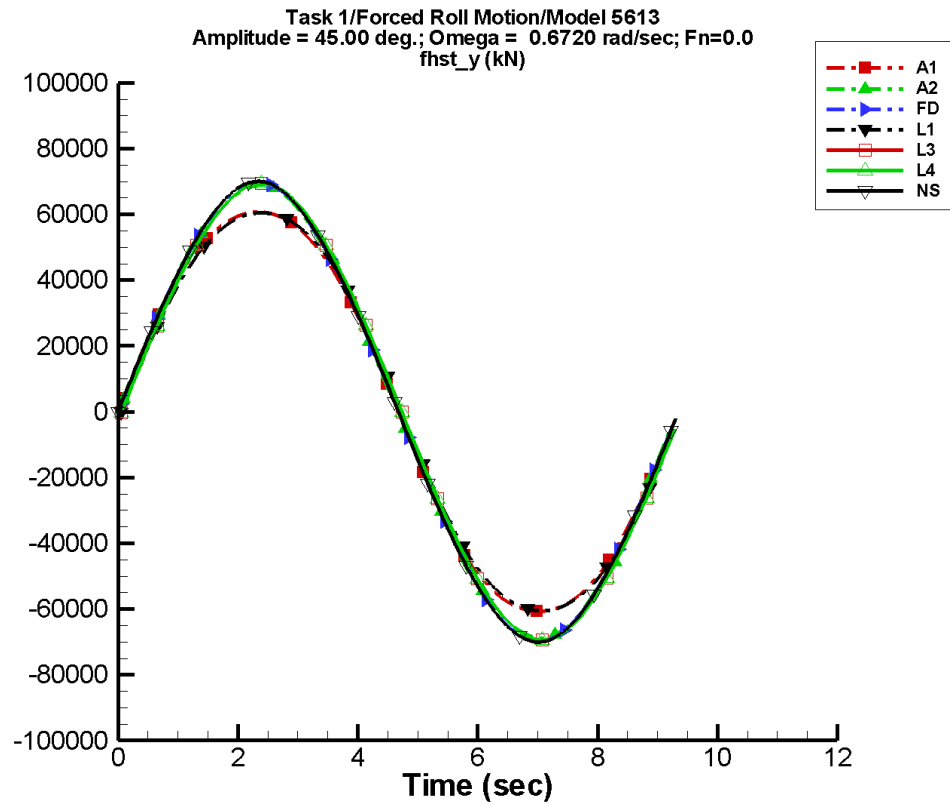
Table C–505. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	25.3	4.35E+04	0	59.9	44
A2	-43.8	4.54E+04	0	98.9	-164
FD	-8.15	4.49E+04	0	14.6	-27
L1	3.54E-02	4.33E+04	-2	106.	55
L3	1.65	4.49E+04	-2	14.2	-130
L4	1.65	4.49E+04	-2	14.2	-130
NF	—	—	—	—	—
NS	-3.62E-04	4.51E+04	0	8.03E-04	-151

Table C–506. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.29E+04	4.29E+04	-4.25E+04	4.25E+04
A2	-4.63E+04	4.63E+04	-4.57E+04	4.57E+04
FD	-4.50E+04	4.50E+04	-4.47E+04	4.45E+04
L1	-4.28E+04	4.28E+04	-4.26E+04	4.26E+04
L3	-4.50E+04	4.50E+04	-4.48E+04	4.48E+04
L4	-4.50E+04	4.50E+04	-4.48E+04	4.48E+04
NF	—	—	—	—
NS	-4.52E+04	4.52E+04	-4.50E+04	4.50E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-254. Time history of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

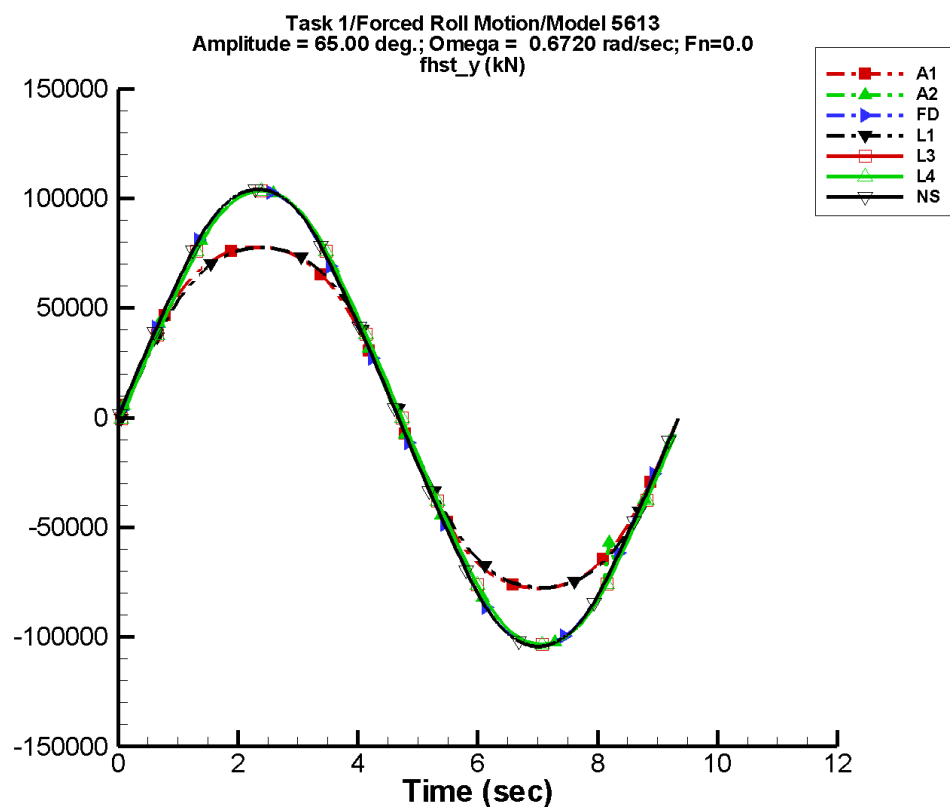
Table C–507. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	83.8	6.25E+04	0	198.	44
A2	-39.1	6.81E+04	0	51.5	176
FD	-65.6	6.87E+04	0	120.	-28
L1	-0.904	6.20E+04	-2	351.	55
L3	8.53	6.86E+04	-2	160.	-128
L4	8.53	6.86E+04	-2	160.	-128
NF	—	—	—	—	—
NS	-0.264	6.90E+04	0	0.508	87

Table C–508. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.07E+04	6.07E+04	-6.02E+04	6.02E+04
A2	-6.89E+04	6.89E+04	-6.79E+04	6.79E+04
FD	-6.97E+04	6.97E+04	-6.92E+04	6.88E+04
L1	-6.05E+04	6.05E+04	-6.03E+04	6.03E+04
L3	-6.95E+04	6.95E+04	-6.91E+04	6.92E+04
L4	-6.95E+04	6.95E+04	-6.91E+04	6.92E+04
NF	—	—	—	—
NS	-7.00E+04	7.00E+04	-6.99E+04	6.99E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-255. Time history of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

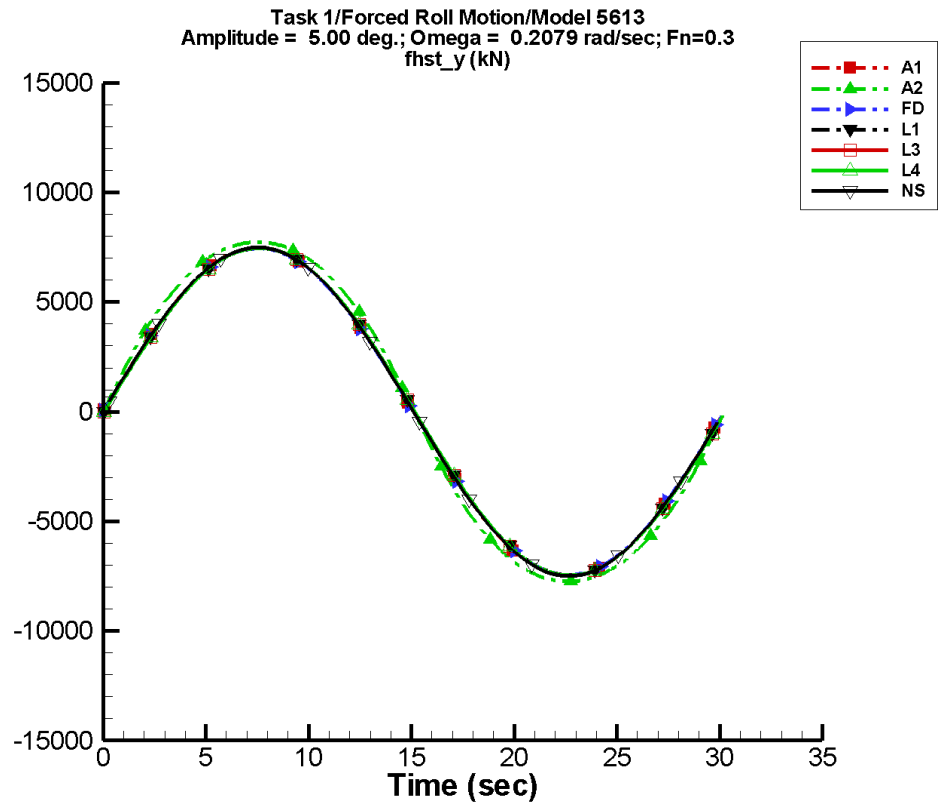
Table C–509. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	242.	8.28E+04	0	575.	45
A2	70.8	1.02E+05	-1	544.	-167
FD	-137.	1.03E+05	0	286.	-44
L1	-2.65	8.20E+04	-2	1.01E+03	55
L3	-5.35	1.03E+05	-2	388.	-124
L4	-5.35	1.03E+05	-2	388.	-124
NF	—	—	—	—	—
NS	-27.7	1.03E+05	0	45.9	90

Table C–510. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.78E+04	7.78E+04	-7.74E+04	7.74E+04
A2	-1.04E+05	1.04E+05	-1.02E+05	1.02E+05
FD	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
L1	-7.75E+04	7.75E+04	-7.74E+04	7.74E+04
L3	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
L4	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
NF	—	—	—	—
NS	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-256. Time history of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

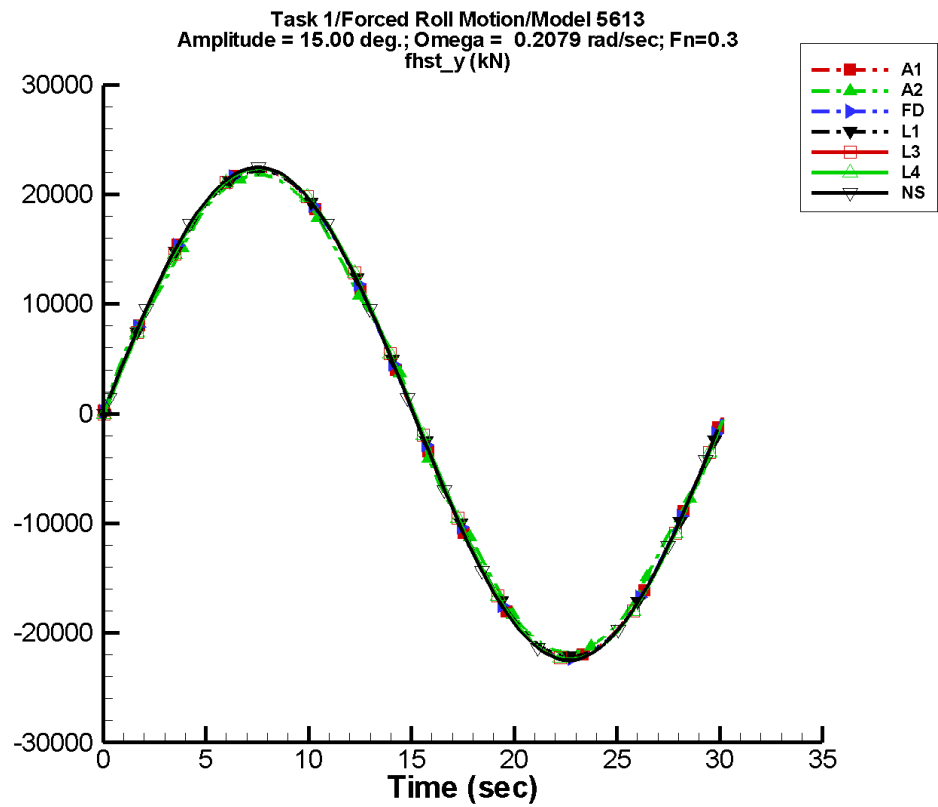
Table C–511. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	5.49E-02	7.49E+03	0	0.378	58
A2	9.95	8.04E+03	0	53.5	59
FD	-0.245	7.44E+03	0	1.09	-115
L1	0.147	7.46E+03	-1	0.567	87
L3	1.93E-02	7.47E+03	-1	6.62E-02	86
L4	1.93E-02	7.47E+03	-1	6.62E-02	86
NF	—	—	—	—	—
NS	8.19E-04	7.49E+03	0	9.31E-04	27

Table C–512. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.49E+03	7.49E+03	-7.48E+03	7.49E+03
A2	-7.74E+03	7.74E+03	-7.73E+03	7.75E+03
FD	-7.45E+03	7.45E+03	-7.44E+03	7.44E+03
L1	-7.46E+03	7.46E+03	-7.46E+03	7.46E+03
L3	-7.46E+03	7.46E+03	-7.46E+03	7.46E+03
L4	-7.46E+03	7.46E+03	-7.46E+03	7.46E+03
NF	—	—	—	—
NS	-7.49E+03	7.49E+03	-7.42E+03	7.42E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-257. Time history of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

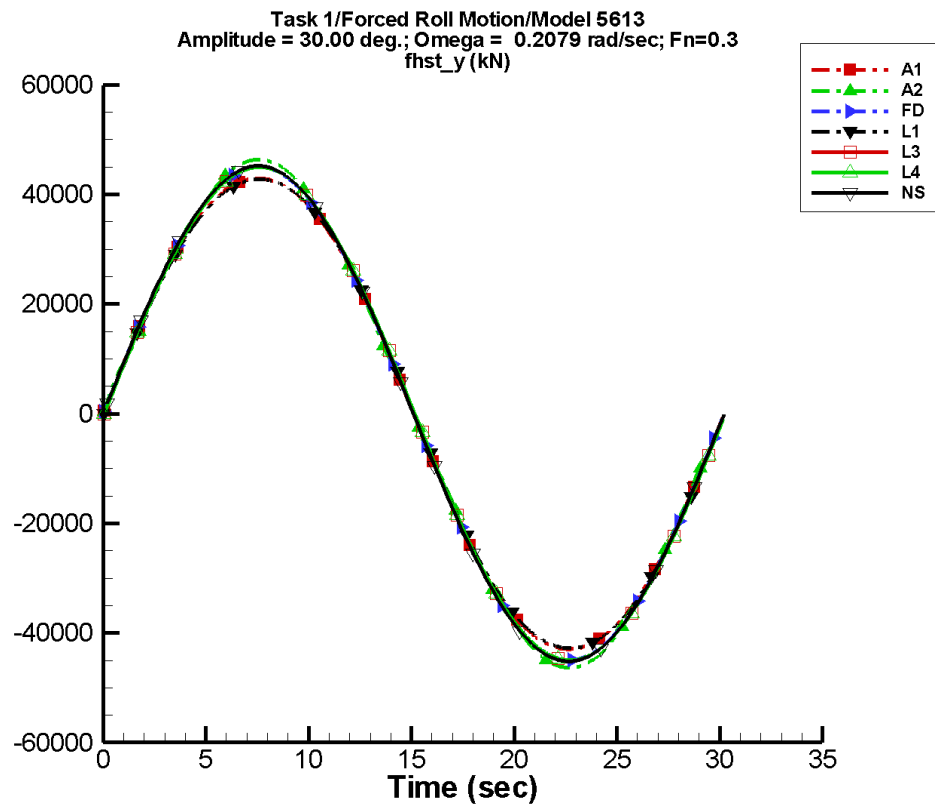
Table C–513. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.61	2.23E+04	0	10.1	59
A2	12.4	2.16E+04	0	33.7	127
FD	-0.183	2.23E+04	0	0.502	-95
L1	3.91	2.22E+04	-1	15.2	87
L3	0.203	2.24E+04	-1	0.604	86
L4	0.203	2.24E+04	-1	0.604	86
NF	—	—	—	—	—
NS	3.39E-04	2.25E+04	0	1.55E-03	-8

Table C–514. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.22E+04	2.22E+04	-2.22E+04	2.22E+04
A2	-2.18E+04	2.18E+04	-2.18E+04	2.18E+04
FD	-2.23E+04	2.23E+04	-2.23E+04	2.23E+04
L1	-2.21E+04	2.21E+04	-2.21E+04	2.21E+04
L3	-2.24E+04	2.24E+04	-2.24E+04	2.24E+04
L4	-2.24E+04	2.24E+04	-2.24E+04	2.24E+04
NF	—	—	—	—
NS	-2.25E+04	2.25E+04	-2.23E+04	2.23E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-258. Time history of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

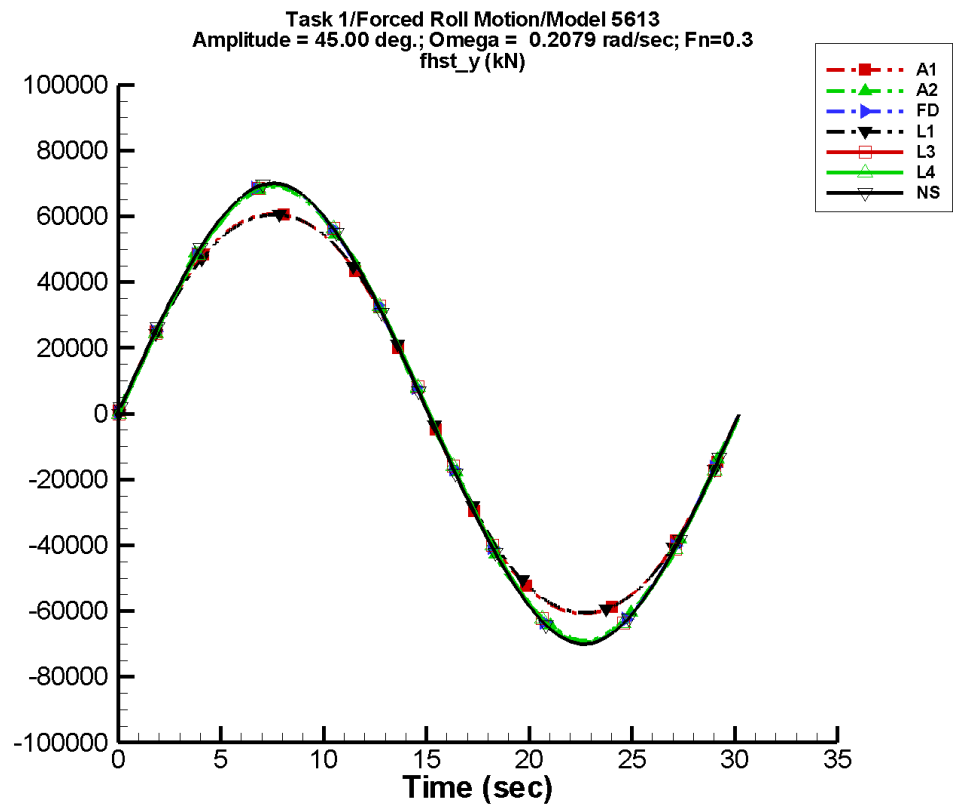
Table C–515. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	12.8	4.34E+04	0	79.9	59
A2	-17.5	4.55E+04	0	126.	-130
FD	-2.76	4.49E+04	0	14.5	-130
L1	30.6	4.33E+04	-1	120.	87
L3	-3.54	4.49E+04	-1	14.9	-92
L4	-3.54	4.49E+04	-1	14.9	-92
NF	—	—	—	—	—
NS	2.26E-03	4.51E+04	0	2.02E-03	6

Table C–516. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.30E+04	4.30E+04	-4.29E+04	4.30E+04
A2	-4.63E+04	4.63E+04	-4.63E+04	4.63E+04
FD	-4.50E+04	4.50E+04	-4.49E+04	4.49E+04
L1	-4.28E+04	4.28E+04	-4.28E+04	4.28E+04
L3	-4.50E+04	4.50E+04	-4.50E+04	4.50E+04
L4	-4.50E+04	4.50E+04	-4.50E+04	4.50E+04
NF	—	—	—	—
NS	-4.52E+04	4.52E+04	-4.50E+04	4.50E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-259. Time history of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

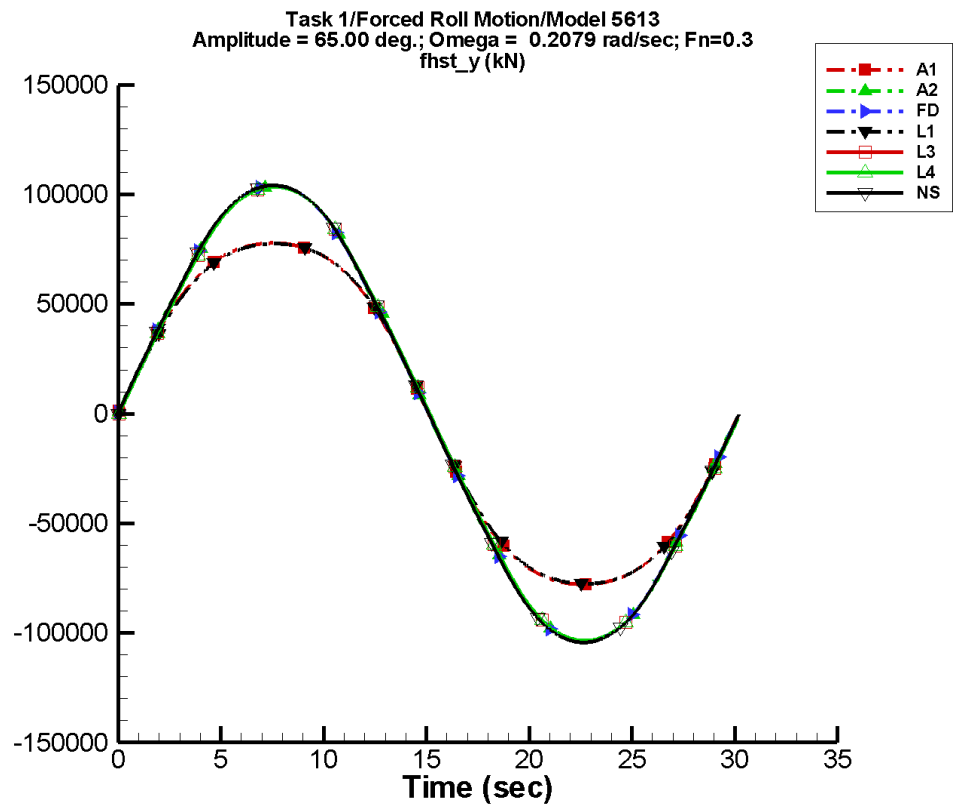
Table C–517. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	42.6	6.24E+04	0	264.	59
A2	-18.3	6.81E+04	0	64.9	-128
FD	-22.7	6.87E+04	0	121.	-128
L1	101.	6.22E+04	-1	398.	87
L3	-43.0	6.85E+04	-1	173.	-92
L4	-43.0	6.85E+04	-1	173.	-92
NF	—	—	—	—	—
NS	-0.276	6.90E+04	0	0.494	87

Table C–518. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.07E+04	6.07E+04	-6.07E+04	6.08E+04
A2	-6.89E+04	6.89E+04	-6.89E+04	6.89E+04
FD	-6.97E+04	6.97E+04	-6.96E+04	6.96E+04
L1	-6.05E+04	6.05E+04	-6.05E+04	6.05E+04
L3	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
L4	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
NF	—	—	—	—
NS	-7.00E+04	7.00E+04	-6.99E+04	6.99E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-260. Time history of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

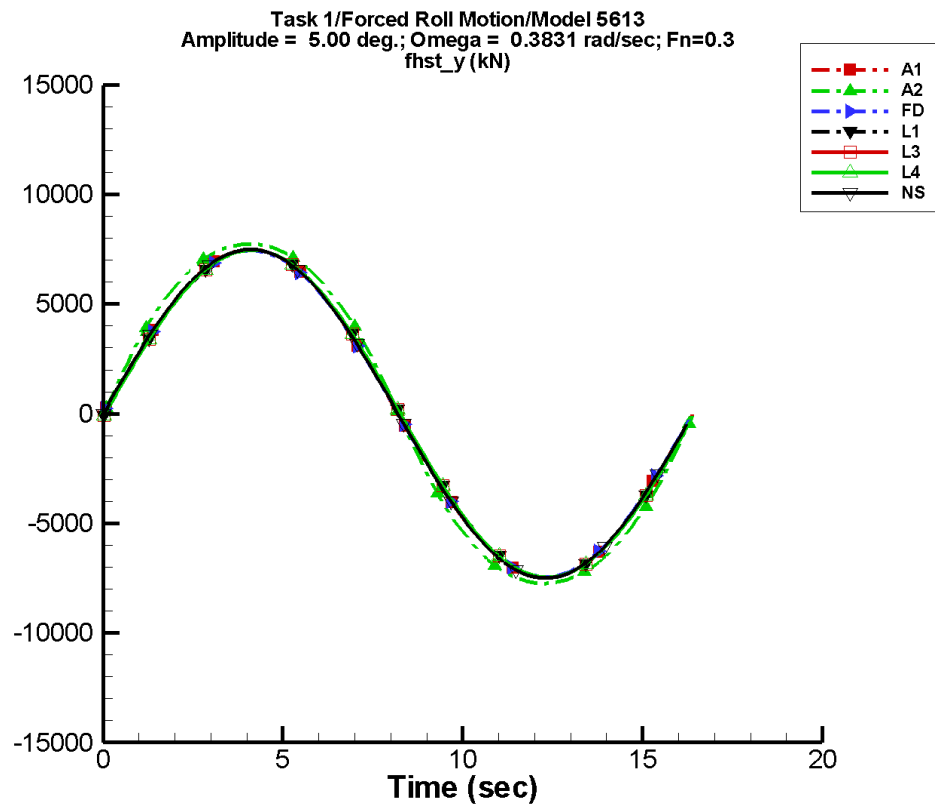
Table C–519. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	124.	8.25E+04	0	765.	59
A2	-54.6	1.03E+05	0	311.	-125
FD	-59.5	1.03E+05	0	313.	-116
L1	293.	8.23E+04	-1	1.15E+03	87
L3	-122.	1.02E+05	-1	472.	-93
L4	-122.	1.02E+05	-1	472.	-93
NF	—	—	—	—	—
NS	-27.9	1.03E+05	0	46.2	90

Table C–520. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.79E+04	7.79E+04	-7.78E+04	7.80E+04
A2	-1.04E+05	1.04E+05	-1.03E+05	1.04E+05
FD	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05
L1	-7.76E+04	7.76E+04	-7.75E+04	7.75E+04
L3	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
L4	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
NF	—	—	—	—
NS	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-261. Time history of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

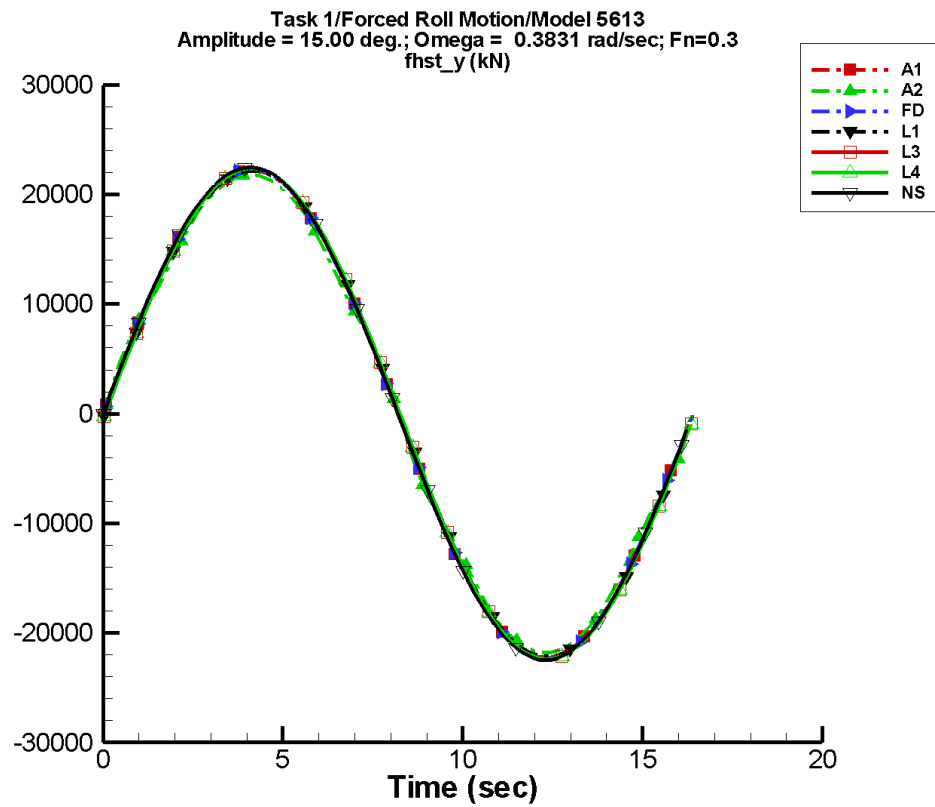
Table C–521. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.93E-02	7.49E+03	0	0.402	60
A2	8.95	8.04E+03	0	55.6	58
FD	-0.216	7.44E+03	0	1.40	-105
L1	0.227	7.46E+03	-1	0.357	147
L3	5.19E-02	7.46E+03	-1	5.29E-02	133
L4	5.19E-02	7.46E+03	-1	5.29E-02	133
NF	—	—	—	—	—
NS	-3.55E-04	7.49E+03	0	9.03E-04	-11

Table C–522. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.49E+03	7.49E+03	-7.46E+03	7.51E+03
A2	-7.74E+03	7.74E+03	-7.72E+03	7.77E+03
FD	-7.45E+03	7.45E+03	-7.42E+03	7.42E+03
L1	-7.46E+03	7.46E+03	-7.45E+03	7.45E+03
L3	-7.46E+03	7.46E+03	-7.45E+03	7.45E+03
L4	-7.46E+03	7.46E+03	-7.45E+03	7.45E+03
NF	—	—	—	—
NS	-7.49E+03	7.49E+03	-7.42E+03	7.42E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-262. Time history of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

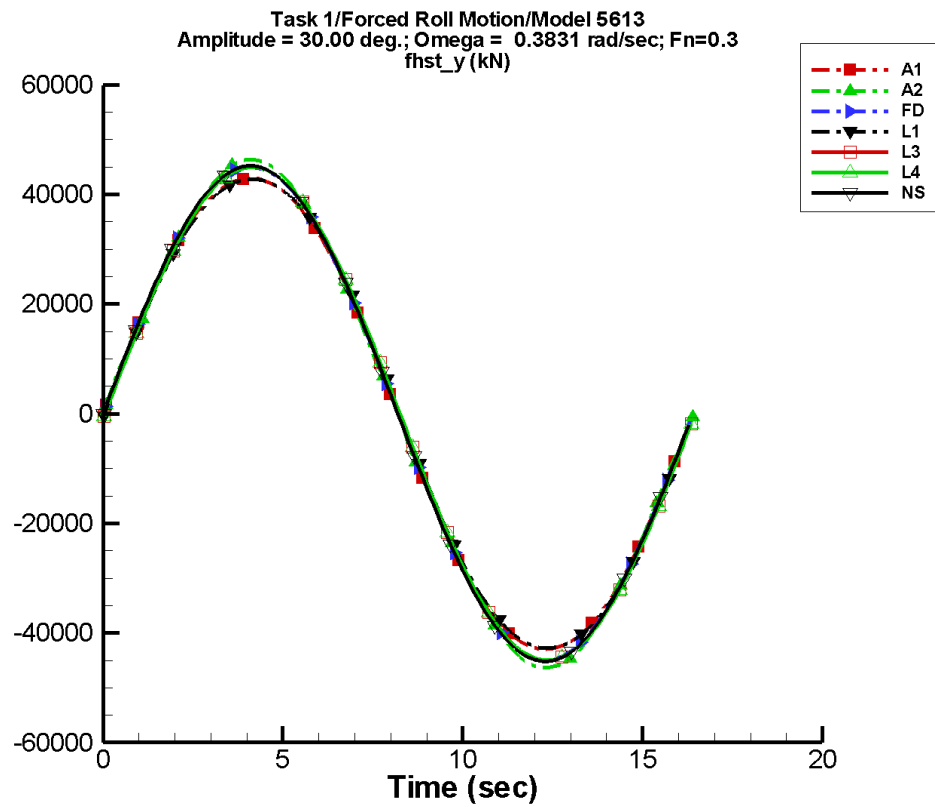
Table C–523. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.34	2.23E+04	0	10.8	60
A2	13.1	2.16E+04	0	33.4	127
FD	-0.198	2.23E+04	0	0.597	-86
L1	5.38	2.22E+04	-1	9.33	148
L3	0.279	2.24E+04	-1	0.403	140
L4	0.279	2.24E+04	-1	0.403	140
NF	—	—	—	—	—
NS	-6.79E-04	2.25E+04	0	2.73E-03	-6

Table C–524. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.22E+04	2.22E+04	-2.22E+04	2.23E+04
A2	-2.18E+04	2.18E+04	-2.17E+04	2.19E+04
FD	-2.23E+04	2.23E+04	-2.23E+04	2.23E+04
L1	-2.21E+04	2.21E+04	-2.21E+04	2.21E+04
L3	-2.24E+04	2.24E+04	-2.24E+04	2.24E+04
L4	-2.24E+04	2.24E+04	-2.24E+04	2.24E+04
NF	—	—	—	—
NS	-2.25E+04	2.25E+04	-2.23E+04	2.23E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-263. Time history of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

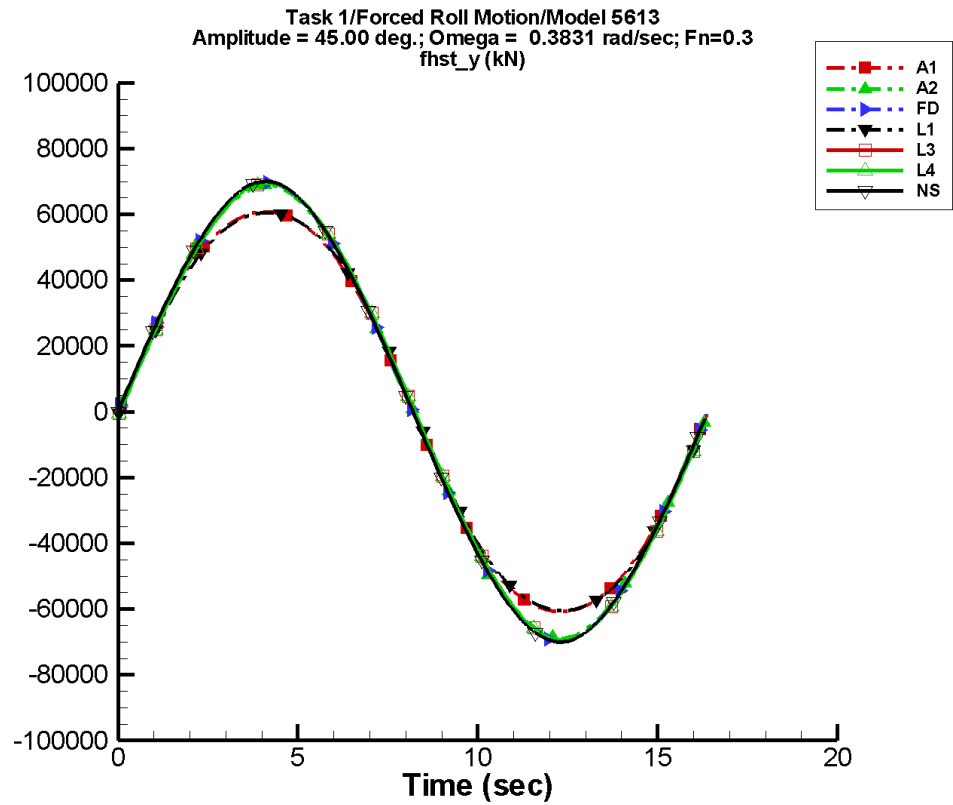
Table C–525. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	10.6	4.34E+04	0	85.4	60
A2	-14.9	4.55E+04	0	131.	-132
FD	-3.22	4.49E+04	0	20.5	-102
L1	42.1	4.32E+04	-1	73.5	148
L3	-5.46	4.49E+04	-1	9.60	-20
L4	-5.46	4.49E+04	-1	9.60	-20
NF	—	—	—	—	—
NS	8.82E-04	4.51E+04	0	6.05E-03	-106

Table C–526. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.30E+04	4.30E+04	-4.28E+04	4.31E+04
A2	-4.63E+04	4.63E+04	-4.61E+04	4.64E+04
FD	-4.50E+04	4.50E+04	-4.48E+04	4.48E+04
L1	-4.28E+04	4.28E+04	-4.27E+04	4.27E+04
L3	-4.50E+04	4.50E+04	-4.49E+04	4.49E+04
L4	-4.50E+04	4.50E+04	-4.49E+04	4.49E+04
NF	—	—	—	—
NS	-4.52E+04	4.52E+04	-4.50E+04	4.50E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-264. Time history of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

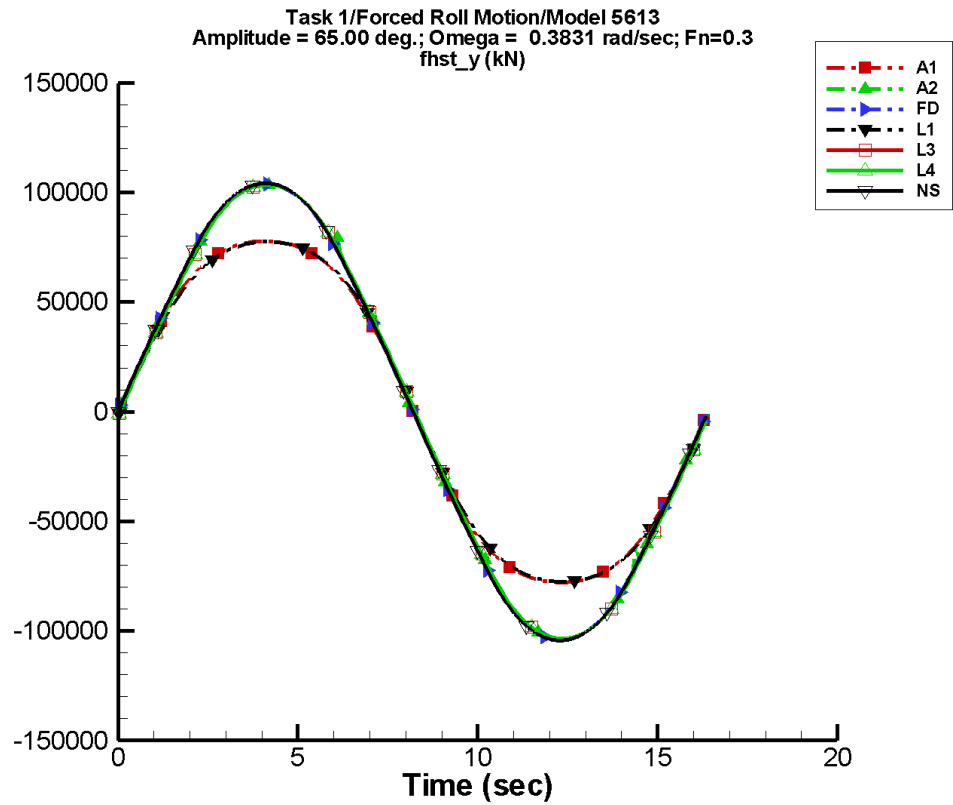
Table C–527. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	35.2	6.24E+04	0	282.	60
A2	-17.0	6.81E+04	0	68.8	-136
FD	-25.8	6.87E+04	0	169.	-103
L1	139.	6.20E+04	-1	243.	148
L3	-62.6	6.86E+04	-1	109.	-24
L4	-62.6	6.86E+04	-1	109.	-24
NF	—	—	—	—	—
NS	-0.272	6.90E+04	0	0.501	91

Table C–528. Minimum and maximum of of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.07E+04	6.07E+04	-6.06E+04	6.09E+04
A2	-6.89E+04	6.89E+04	-6.86E+04	6.90E+04
FD	-6.97E+04	6.97E+04	-6.94E+04	6.94E+04
L1	-6.05E+04	6.05E+04	-6.04E+04	6.04E+04
L3	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
L4	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
NF	—	—	—	—
NS	-7.00E+04	7.00E+04	-6.99E+04	6.99E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-265. Time history of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

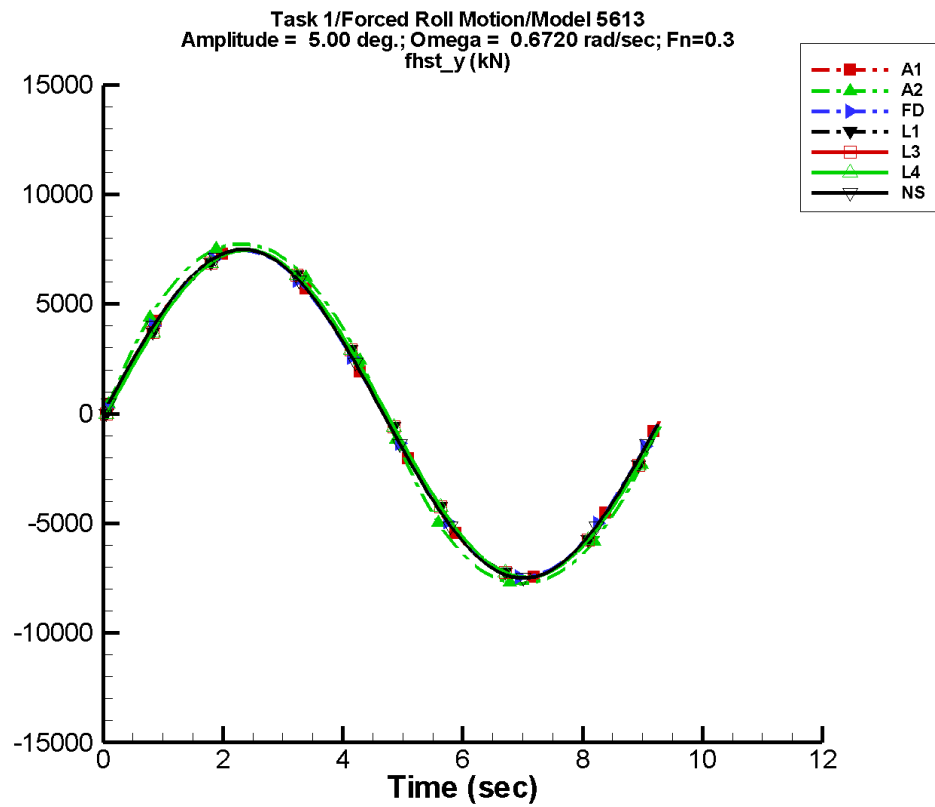
Table C–529. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	103.	8.25E+04	0	817.	61
A2	-80.2	1.03E+05	0	199.	-71
FD	-51.0	1.03E+05	0	404.	-108
L1	401.	8.19E+04	-1	702.	148
L3	-147.	1.03E+05	-1	276.	-39
L4	-147.	1.03E+05	-1	276.	-39
NF	—	—	—	—	—
NS	-27.9	1.03E+05	0	45.8	90

Table C–530. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.79E+04	7.79E+04	-7.77E+04	7.81E+04
A2	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
FD	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
L1	-7.76E+04	7.76E+04	-7.75E+04	7.75E+04
L3	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
L4	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
NF	—	—	—	—
NS	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-266. Time history of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

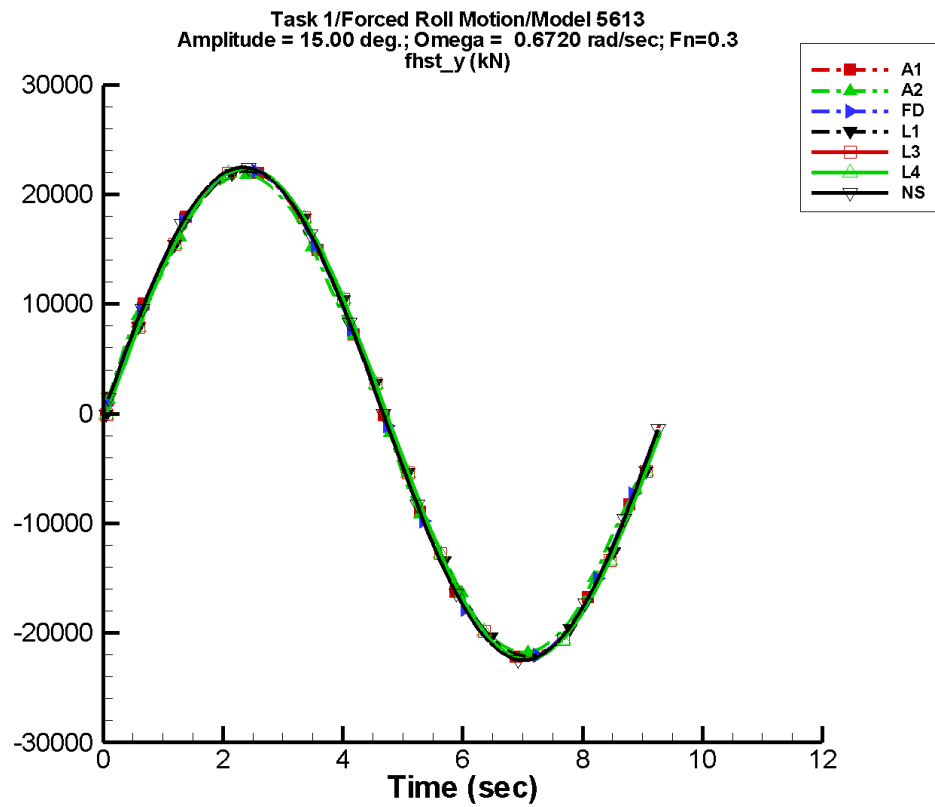
Table C–531. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.112	7.49E+03	0	0.288	41
A2	18.0	8.06E+03	0	40.2	36
FD	-0.538	7.44E+03	0	1.01	-44
L1	0.106	7.46E+03	-2	0.499	55
L3	0.110	7.46E+03	-2	5.74E-02	60
L4	0.110	7.46E+03	-2	5.74E-02	60
NF	—	—	—	—	—
NS	-5.01E-04	7.49E+03	0	1.09E-03	68

Table C–532. Minimum and maximum of F_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.49E+03	7.49E+03	-7.40E+03	7.40E+03
A2	-7.74E+03	7.74E+03	-7.68E+03	7.68E+03
FD	-7.45E+03	7.45E+03	-7.41E+03	7.36E+03
L1	-7.46E+03	7.46E+03	-7.43E+03	7.43E+03
L3	-7.46E+03	7.46E+03	-7.43E+03	7.44E+03
L4	-7.46E+03	7.46E+03	-7.43E+03	7.44E+03
NF	—	—	—	—
NS	-7.49E+03	7.49E+03	-7.42E+03	7.42E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-267. Time history of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

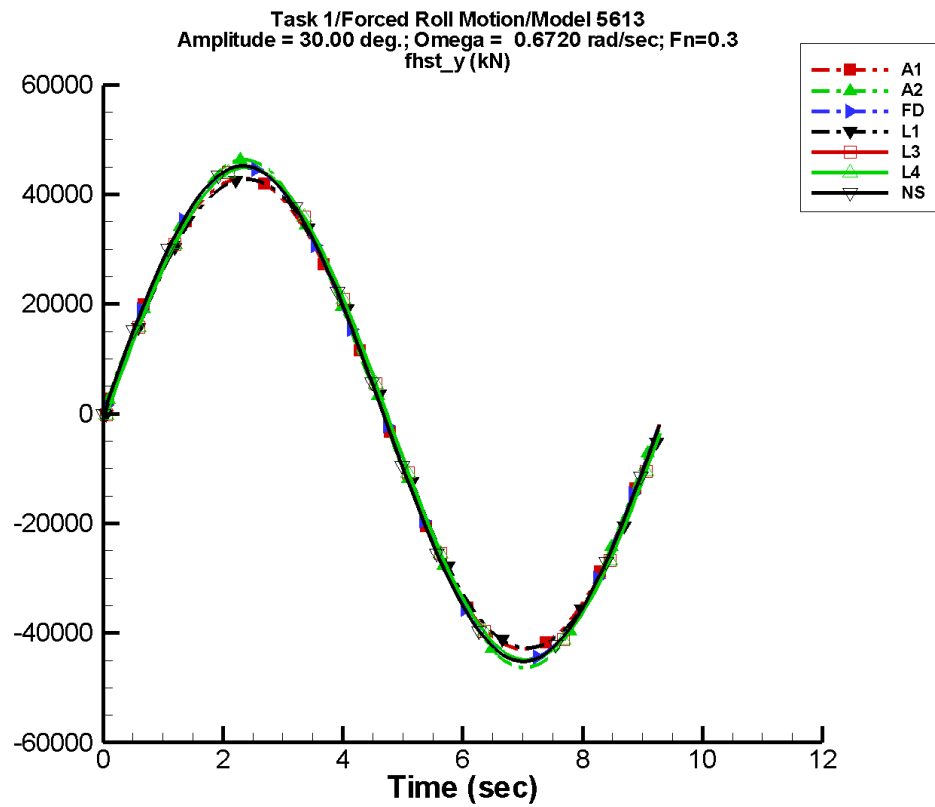
Table C–533. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	3.19	2.23E+04	0	7.59	44
A2	6.11	2.16E+04	0	46.3	114
FD	-0.299	2.23E+04	0	0.462	-63
L1	0.255	2.22E+04	-2	13.5	55
L3	0.356	2.24E+04	-2	0.522	57
L4	0.356	2.24E+04	-2	0.522	57
NF	—	—	—	—	—
NS	-2.84E-03	2.25E+04	0	2.94E-03	53

Table C–534. Minimum and maximum of F_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.22E+04	2.22E+04	-2.20E+04	2.20E+04
A2	-2.18E+04	2.18E+04	-2.15E+04	2.15E+04
FD	-2.23E+04	2.23E+04	-2.22E+04	2.21E+04
L1	-2.21E+04	2.21E+04	-2.21E+04	2.21E+04
L3	-2.24E+04	2.24E+04	-2.23E+04	2.23E+04
L4	-2.24E+04	2.24E+04	-2.23E+04	2.23E+04
NF	—	—	—	—
NS	-2.25E+04	2.25E+04	-2.23E+04	2.23E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-268. Time history of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

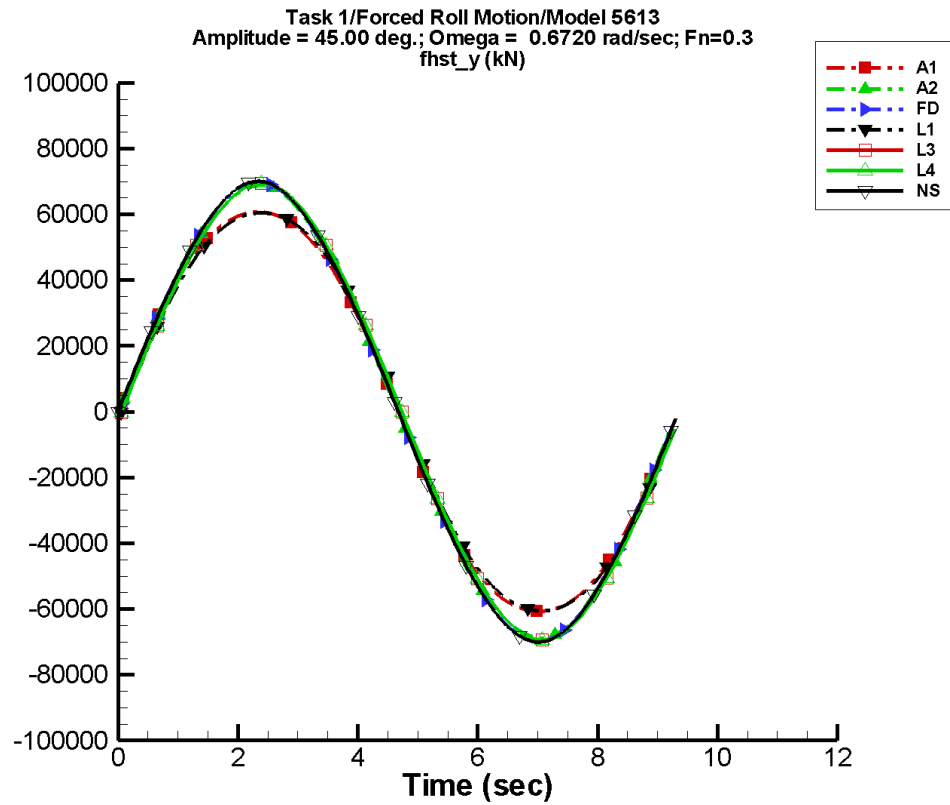
Table C–535. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	25.3	4.35E+04	0	59.9	44
A2	-43.8	4.54E+04	0	98.9	-164
FD	-8.14	4.49E+04	0	14.6	-27
L1	3.54E-02	4.33E+04	-2	106.	55
L3	1.65	4.49E+04	-2	14.2	-130
L4	1.65	4.49E+04	-2	14.2	-130
NF	—	—	—	—	—
NS	-3.62E-04	4.51E+04	0	8.03E-04	-151

Table C–536. Minimum and maximum of F_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.29E+04	4.29E+04	-4.25E+04	4.25E+04
A2	-4.63E+04	4.63E+04	-4.57E+04	4.57E+04
FD	-4.50E+04	4.50E+04	-4.47E+04	4.45E+04
L1	-4.28E+04	4.28E+04	-4.26E+04	4.26E+04
L3	-4.50E+04	4.50E+04	-4.48E+04	4.48E+04
L4	-4.50E+04	4.50E+04	-4.48E+04	4.48E+04
NF	—	—	—	—
NS	-4.52E+04	4.52E+04	-4.50E+04	4.50E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-269. Time history of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

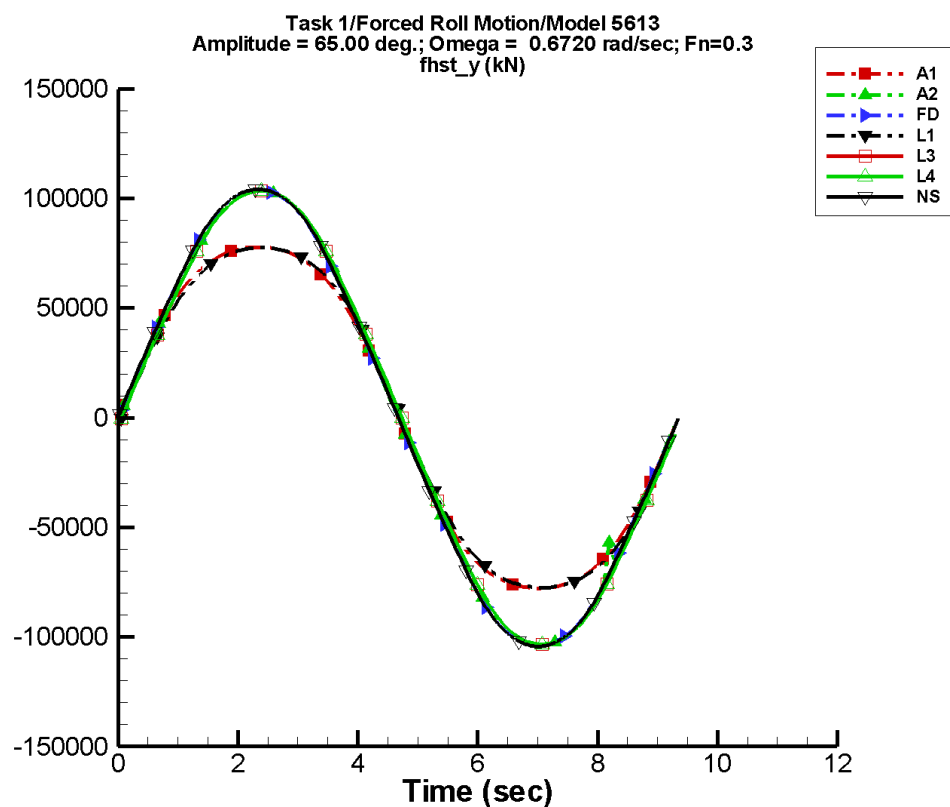
Table C–537. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	83.8	6.25E+04	0	198.	44
A2	-39.1	6.81E+04	0	51.5	176
FD	-65.6	6.87E+04	0	120.	-28
L1	-0.904	6.20E+04	-2	351.	55
L3	8.54	6.86E+04	-2	160.	-128
L4	8.54	6.86E+04	-2	160.	-128
NF	—	—	—	—	—
NS	-0.264	6.90E+04	0	0.508	87

Table C–538. Minimum and maximum of F_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.07E+04	6.07E+04	-6.02E+04	6.02E+04
A2	-6.89E+04	6.89E+04	-6.79E+04	6.79E+04
FD	-6.97E+04	6.97E+04	-6.92E+04	6.88E+04
L1	-6.05E+04	6.05E+04	-6.03E+04	6.03E+04
L3	-6.95E+04	6.95E+04	-6.91E+04	6.92E+04
L4	-6.95E+04	6.95E+04	-6.91E+04	6.92E+04
NF	—	—	—	—
NS	-7.00E+04	7.00E+04	-6.99E+04	6.99E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-270. Time history of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

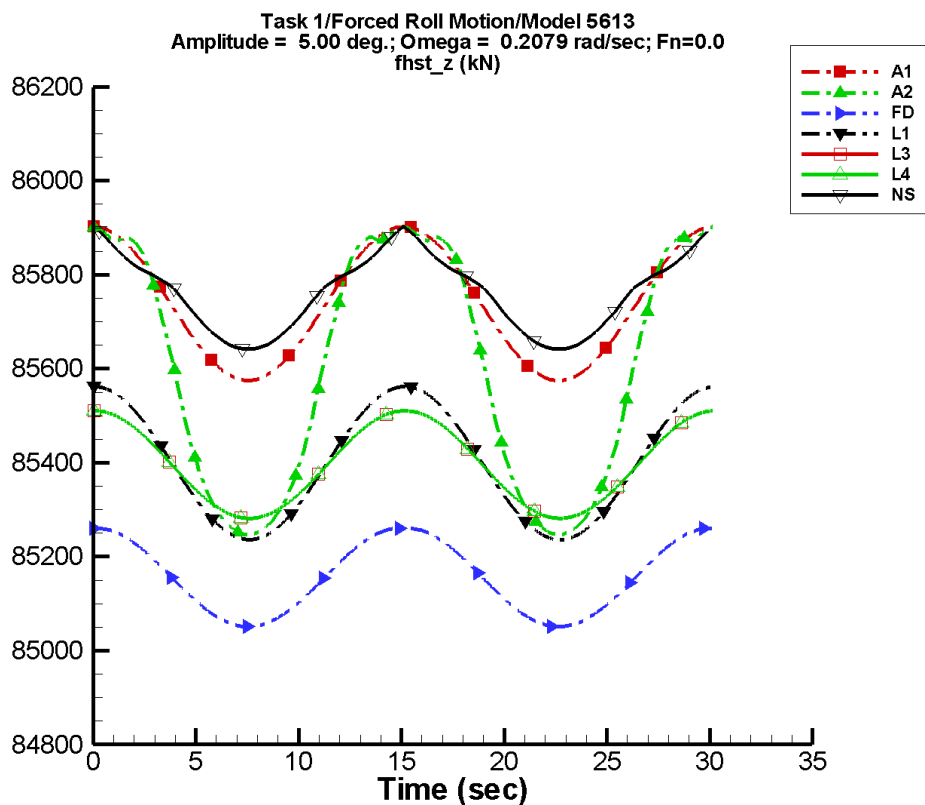
Table C–539. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	242.	8.28E+04	0	575.	45
A2	70.8	1.02E+05	-1	544.	-167
FD	-137.	1.03E+05	0	286.	-44
L1	-2.65	8.20E+04	-2	1.01E+03	55
L3	-5.36	1.03E+05	-2	388.	-124
L4	-5.36	1.03E+05	-2	388.	-124
NF	—	—	—	—	—
NS	-27.7	1.03E+05	0	45.9	90

Table C–540. Minimum and maximum of F_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.78E+04	7.78E+04	-7.74E+04	7.74E+04
A2	-1.04E+05	1.04E+05	-1.02E+05	1.02E+05
FD	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05
L1	-7.75E+04	7.75E+04	-7.74E+04	7.74E+04
L3	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
L4	-1.03E+05	1.03E+05	-1.03E+05	1.03E+05
NF	—	—	—	—
NS	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-271. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

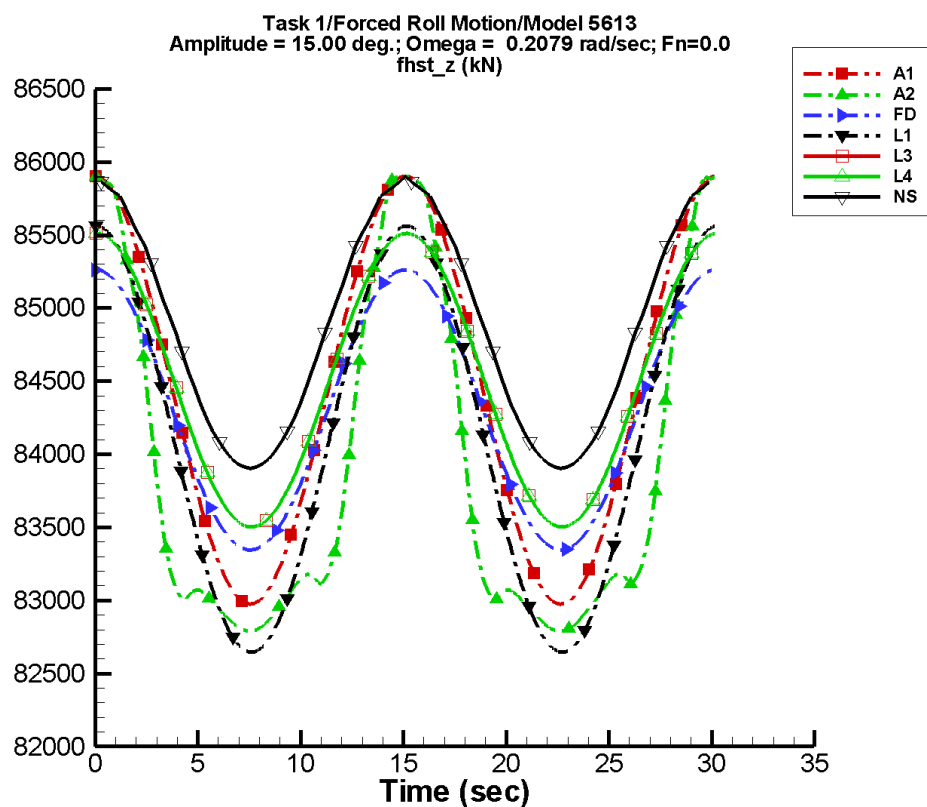
Table C–541. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	6.13E-03	-147	164.	90
A2	8.56E+04	0.442	-16	353.	90
FD	8.52E+04	3.76E-02	-36	106.	90
L1	8.54E+04	7.51E-02	-13	163.	89
L3	8.54E+04	6.20E-03	-17	115.	89
L4	8.54E+04	6.20E-03	-17	115.	89
NF	—	—	—	—	—
NS	8.58E+04	4.44E-03	-127	113.	90

Table C–542. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.52E+04	8.59E+04	8.52E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.52E+04	8.56E+04	8.52E+04	8.56E+04
L3	8.53E+04	8.55E+04	8.53E+04	8.55E+04
L4	8.53E+04	8.55E+04	8.53E+04	8.55E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.56E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-272. Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

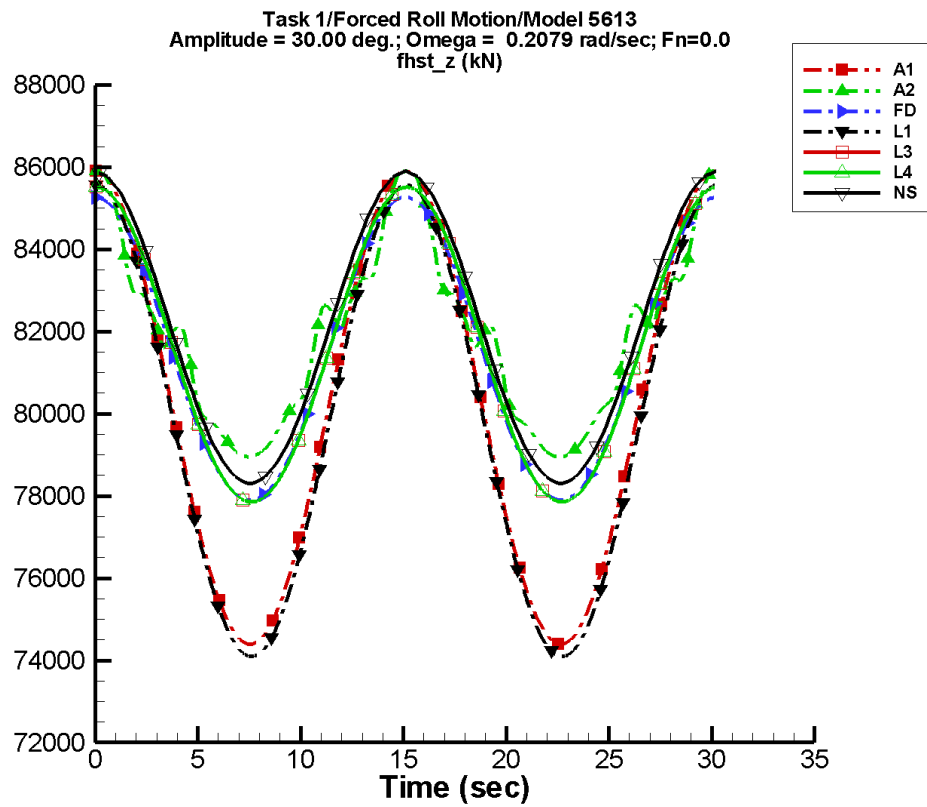
Table C–543. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.44E+04	1.42E-02	151	1.46E+03	90
A2	8.39E+04	8.32	175	1.51E+03	92
FD	8.43E+04	6.53E-02	-145	960.	90
L1	8.41E+04	0.127	106	1.46E+03	89
L3	8.45E+04	0.233	113	1.00E+03	89
L4	8.45E+04	0.233	113	1.00E+03	89
NF	—	—	—	—	—
NS	8.49E+04	7.72E-03	119	987.	90

Table C–544. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.30E+04	8.59E+04	8.30E+04	8.59E+04
A2	8.28E+04	8.59E+04	8.28E+04	8.59E+04
FD	8.33E+04	8.53E+04	8.34E+04	8.53E+04
L1	8.26E+04	8.56E+04	8.26E+04	8.56E+04
L3	8.35E+04	8.55E+04	8.35E+04	8.55E+04
L4	8.35E+04	8.55E+04	8.35E+04	8.55E+04
NF	—	—	—	—
NS	8.39E+04	8.59E+04	8.39E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-273. Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

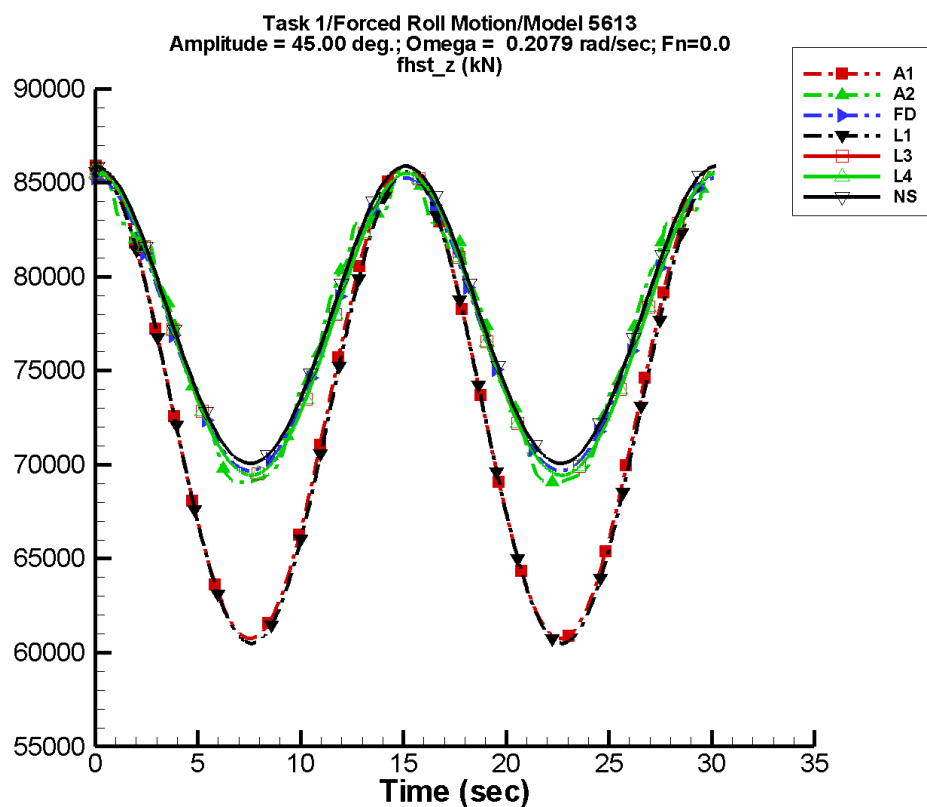
Table C–545. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.01E+04	0.433	-158	5.75E+03	90
A2	8.19E+04	10.1	128	2.91E+03	93
FD	8.15E+04	1.46	-170	3.69E+03	90
L1	7.98E+04	2.41	120	5.73E+03	89
L3	8.16E+04	4.73	120	3.83E+03	89
L4	8.16E+04	4.73	120	3.83E+03	89
NF	—	—	—	—	—
NS	8.20E+04	5.87E-03	-77	3.78E+03	90

Table C–546. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.44E+04	8.59E+04	7.44E+04	8.59E+04
A2	7.90E+04	8.59E+04	7.90E+04	8.59E+04
FD	7.79E+04	8.53E+04	7.79E+04	8.53E+04
L1	7.41E+04	8.56E+04	7.41E+04	8.56E+04
L3	7.79E+04	8.55E+04	7.79E+04	8.55E+04
L4	7.79E+04	8.55E+04	7.79E+04	8.55E+04
NF	—	—	—	—
NS	7.83E+04	8.59E+04	7.84E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-274. Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

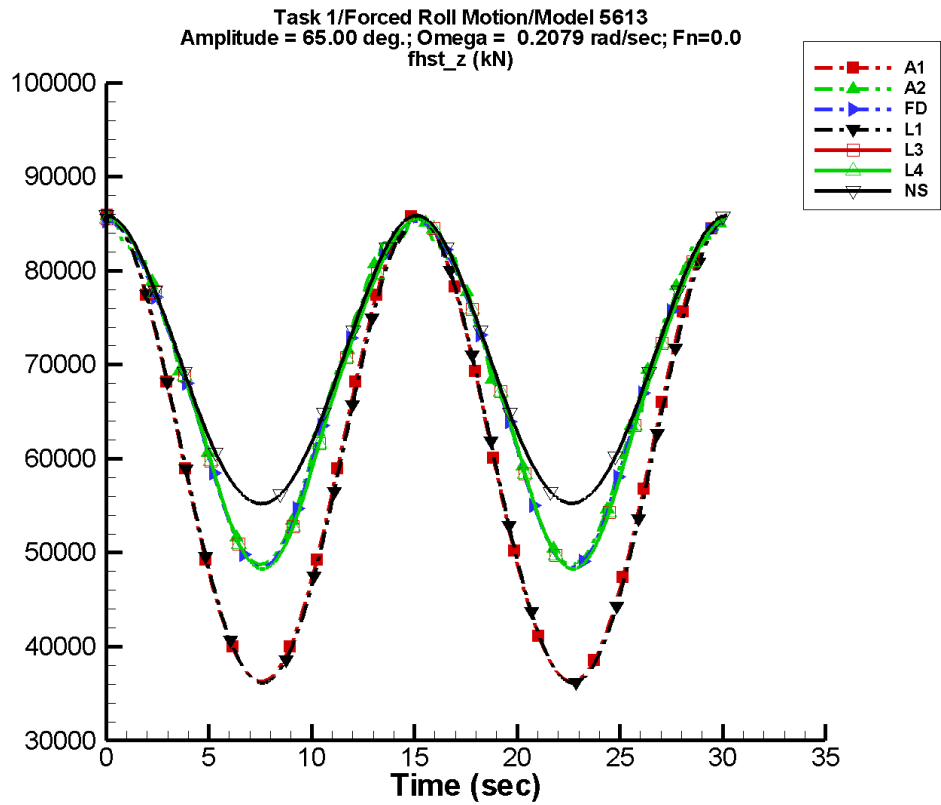
Table C–547. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.32E+04	2.17	-160	1.26E+04	90
A2	7.73E+04	7.23	69	7.99E+03	91
FD	7.73E+04	4.48	-176	7.76E+03	90
L1	7.29E+04	12.0	120	1.25E+04	89
L3	7.72E+04	19.7	119	7.98E+03	89
L4	7.72E+04	19.7	119	7.98E+03	89
NF	—	—	—	—	—
NS	7.77E+04	0.141	84	7.88E+03	90

Table C–548. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.07E+04	8.59E+04	6.08E+04	8.59E+04
A2	6.91E+04	8.59E+04	6.90E+04	8.59E+04
FD	6.97E+04	8.53E+04	6.97E+04	8.53E+04
L1	6.05E+04	8.56E+04	6.05E+04	8.55E+04
L3	6.94E+04	8.55E+04	6.94E+04	8.55E+04
L4	6.94E+04	8.55E+04	6.94E+04	8.55E+04
NF	—	—	—	—
NS	7.01E+04	8.59E+04	7.01E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-275. Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

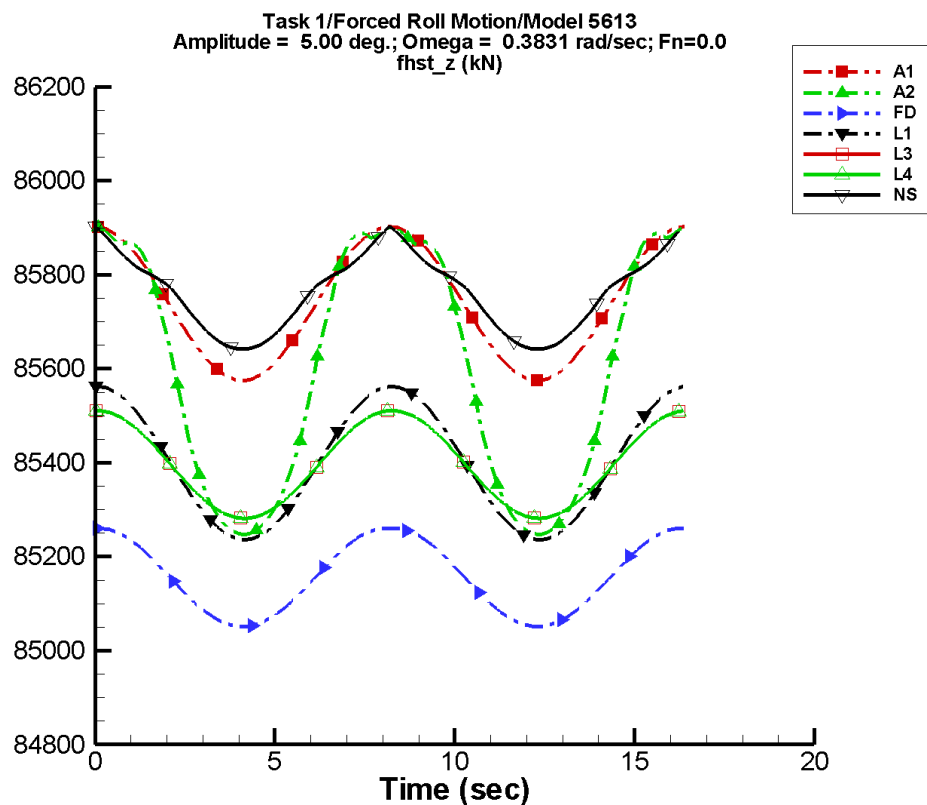
Table C–549. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.04E+04	9.26	-161	2.48E+04	90
A2	6.81E+04	29.7	-2	1.78E+04	91
FD	6.79E+04	28.8	14	1.79E+04	90
L1	6.01E+04	50.7	120	2.47E+04	89
L3	6.78E+04	47.0	-55	1.81E+04	89
L4	6.78E+04	47.0	-55	1.81E+04	89
NF	—	—	—	—	—
NS	6.99E+04	15.0	-171	1.52E+04	90

Table C–550. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.63E+04	8.59E+04	3.64E+04	8.59E+04
A2	4.88E+04	8.59E+04	4.89E+04	8.59E+04
FD	4.84E+04	8.53E+04	4.85E+04	8.53E+04
L1	3.61E+04	8.56E+04	3.62E+04	8.55E+04
L3	4.83E+04	8.55E+04	4.83E+04	8.55E+04
L4	4.83E+04	8.55E+04	4.83E+04	8.55E+04
NF	—	—	—	—
NS	5.52E+04	8.59E+04	5.53E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-276. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

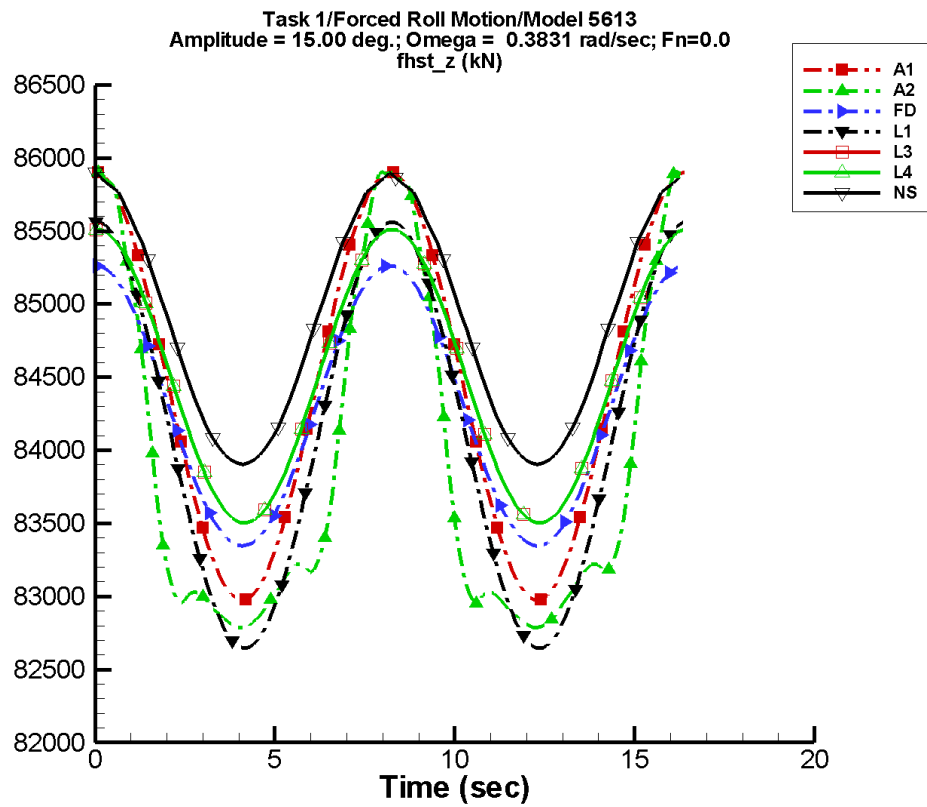
Table C–551. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	1.03E-02	-44	164.	90
A2	8.56E+04	0.658	-43	352.	87
FD	8.52E+04	3.47E-02	-48	106.	90
L1	8.54E+04	1.42E-02	-128	163.	87
L3	8.54E+04	7.42E-02	151	115.	87
L4	8.54E+04	7.42E-02	151	115.	87
NF	—	—	—	—	—
NS	8.58E+04	4.06E-03	96	113.	90

Table C–552. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.52E+04	8.59E+04	8.52E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.52E+04	8.56E+04	8.52E+04	8.56E+04
L3	8.53E+04	8.55E+04	8.53E+04	8.55E+04
L4	8.53E+04	8.55E+04	8.53E+04	8.55E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.56E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-277. Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

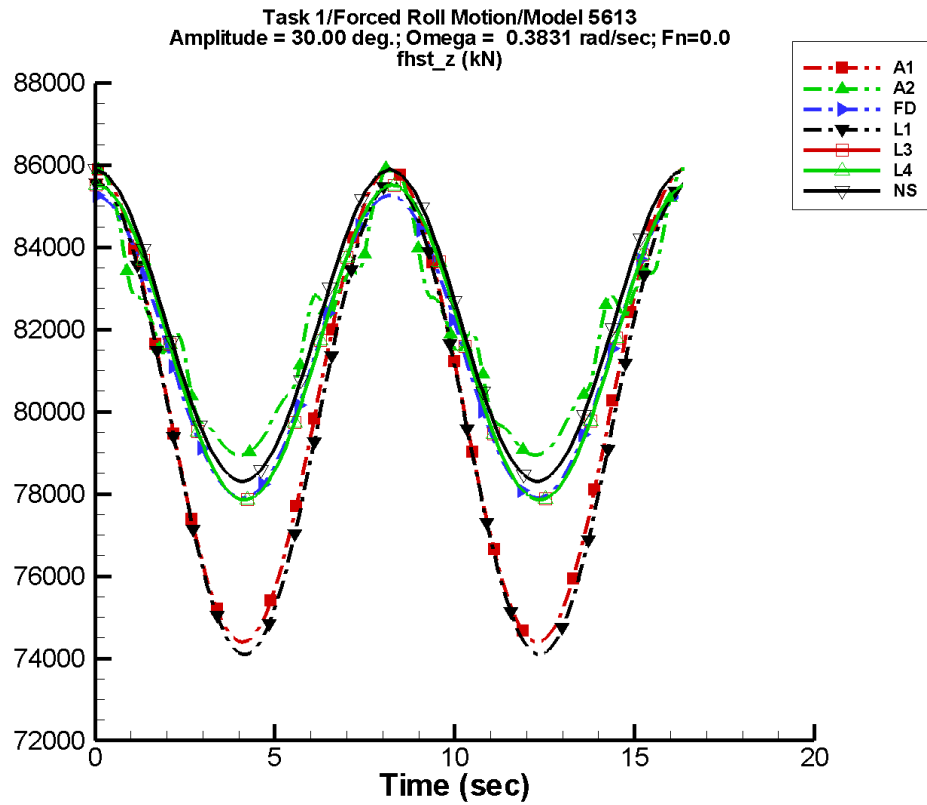
Table C–553. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.44E+04	3.16E-02	-130	1.46E+03	90
A2	8.39E+04	5.46	172	1.50E+03	92
FD	8.43E+04	0.115	121	960.	90
L1	8.41E+04	0.210	153	1.46E+03	87
L3	8.45E+04	0.243	150	1.00E+03	87
L4	8.45E+04	0.243	150	1.00E+03	87
NF	—	—	—	—	—
NS	8.49E+04	5.08E-03	-61	987.	90

Table C–554. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.30E+04	8.59E+04	8.30E+04	8.59E+04
A2	8.28E+04	8.59E+04	8.28E+04	8.59E+04
FD	8.33E+04	8.53E+04	8.34E+04	8.53E+04
L1	8.26E+04	8.56E+04	8.27E+04	8.56E+04
L3	8.35E+04	8.55E+04	8.35E+04	8.55E+04
L4	8.35E+04	8.55E+04	8.35E+04	8.55E+04
NF	—	—	—	—
NS	8.39E+04	8.59E+04	8.39E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-278. Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

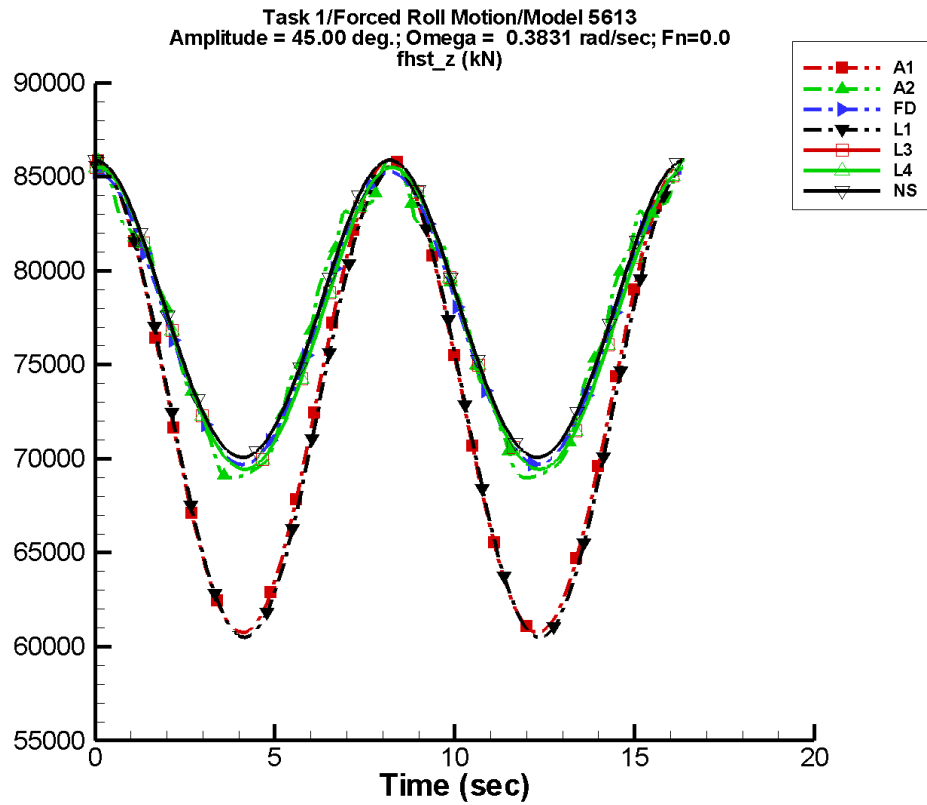
Table C–555. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.01E+04	0.304	-94	5.75E+03	90
A2	8.19E+04	11.1	128	2.93E+03	95
FD	8.15E+04	3.13	121	3.68E+03	90
L1	7.98E+04	2.69	148	5.73E+03	87
L3	8.16E+04	5.44	148	3.83E+03	87
L4	8.16E+04	5.44	148	3.83E+03	87
NF	—	—	—	—	—
NS	8.20E+04	1.14E-02	7	3.78E+03	90

Table C–556. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.44E+04	8.59E+04	7.44E+04	8.59E+04
A2	7.89E+04	8.59E+04	7.89E+04	8.58E+04
FD	7.79E+04	8.53E+04	7.80E+04	8.52E+04
L1	7.41E+04	8.56E+04	7.41E+04	8.56E+04
L3	7.79E+04	8.55E+04	7.79E+04	8.55E+04
L4	7.79E+04	8.55E+04	7.79E+04	8.55E+04
NF	—	—	—	—
NS	7.83E+04	8.59E+04	7.84E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-279. Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

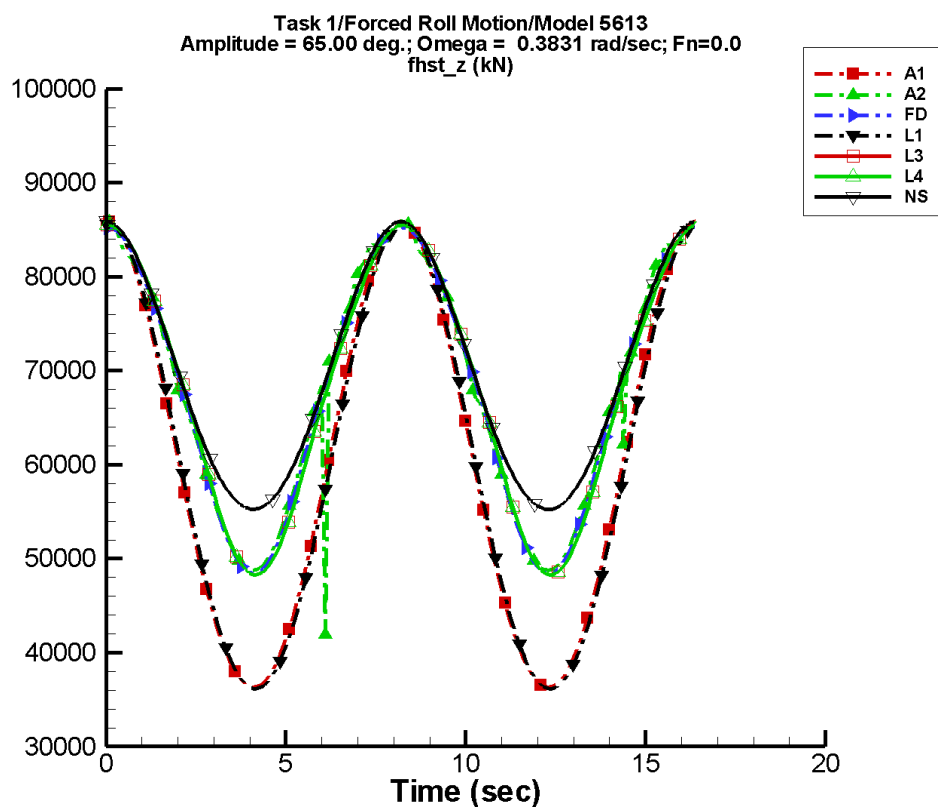
Table C–557. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.32E+04	1.46	-97	1.26E+04	90
A2	7.73E+04	6.93	86	8.00E+03	93
FD	7.73E+04	9.60	120	7.74E+03	90
L1	7.29E+04	13.1	148	1.25E+04	87
L3	7.72E+04	19.3	147	7.99E+03	88
L4	7.72E+04	19.3	147	7.99E+03	88
NF	—	—	—	—	—
NS	7.77E+04	0.143	92	7.88E+03	90

Table C–558. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.07E+04	8.59E+04	6.07E+04	8.58E+04
A2	6.90E+04	8.59E+04	6.89E+04	8.57E+04
FD	6.97E+04	8.53E+04	6.98E+04	8.52E+04
L1	6.05E+04	8.56E+04	6.06E+04	8.56E+04
L3	6.94E+04	8.55E+04	6.95E+04	8.55E+04
L4	6.94E+04	8.55E+04	6.95E+04	8.55E+04
NF	—	—	—	—
NS	7.01E+04	8.59E+04	7.01E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-280. Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

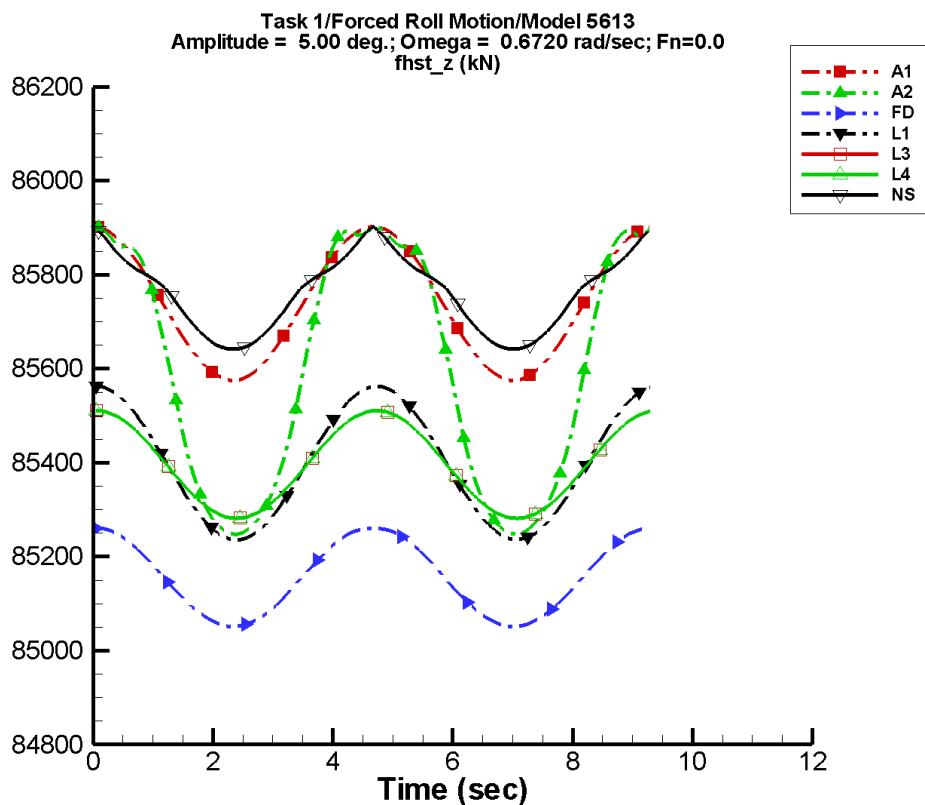
Table C–559. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.04E+04	6.11	-97	2.48E+04	90
A2	6.79E+04	201.	134	1.79E+04	91
FD	6.79E+04	68.1	-58	1.80E+04	90
L1	6.02E+04	54.7	147	2.47E+04	88
L3	6.77E+04	85.5	-30	1.81E+04	87
L4	6.77E+04	85.5	-30	1.81E+04	87
NF	—	—	—	—	—
NS	6.99E+04	9.13	-13	1.52E+04	90

Table C–560. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.63E+04	8.59E+04	3.62E+04	8.57E+04
A2	4.19E+04	8.59E+04	4.91E+04	8.56E+04
FD	4.84E+04	8.53E+04	4.88E+04	8.51E+04
L1	3.61E+04	8.56E+04	3.63E+04	8.56E+04
L3	4.83E+04	8.55E+04	4.84E+04	8.55E+04
L4	4.83E+04	8.55E+04	4.84E+04	8.55E+04
NF	—	—	—	—
NS	5.52E+04	8.59E+04	5.53E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-281. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

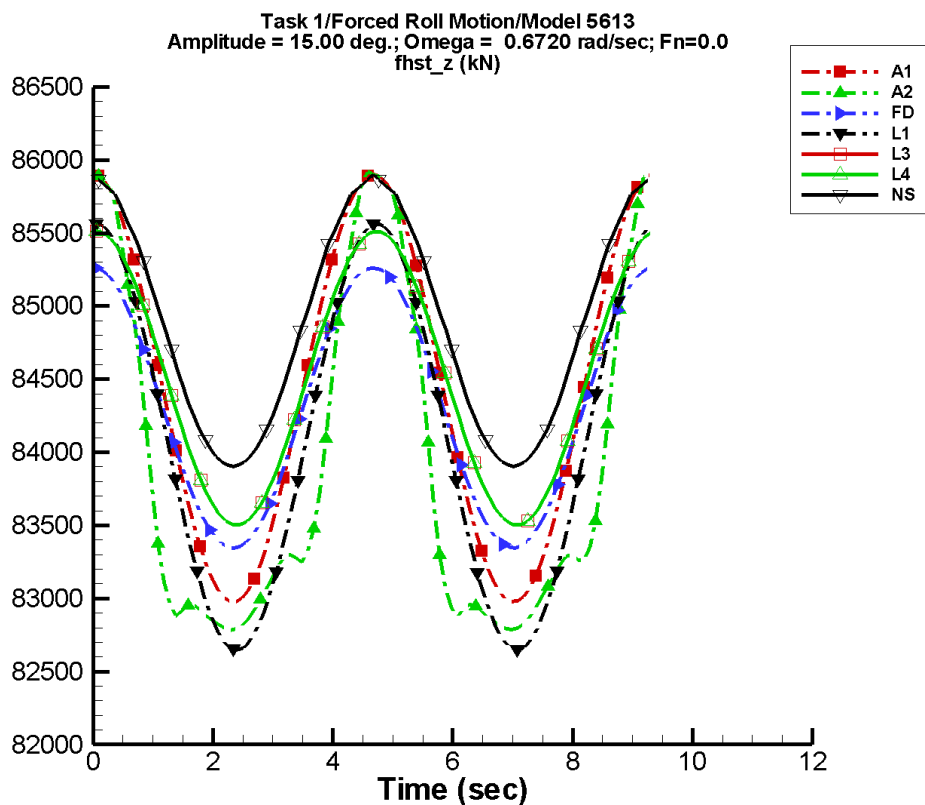
Table C–561. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	1.43E-02	-81	164.	90
A2	8.56E+04	1.41	-27	350.	86
FD	8.52E+04	8.33E-02	-33	106.	90
L1	8.54E+04	1.50E-02	161	163.	85
L3	8.54E+04	1.34E-02	168	115.	85
L4	8.54E+04	1.34E-02	168	115.	85
NF	—	—	—	—	—
NS	8.58E+04	1.25E-02	-34	113.	90

Table C–562. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.52E+04	8.59E+04	8.53E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.52E+04	8.56E+04	8.52E+04	8.56E+04
L3	8.53E+04	8.55E+04	8.53E+04	8.55E+04
L4	8.53E+04	8.55E+04	8.53E+04	8.55E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.56E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-282. Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

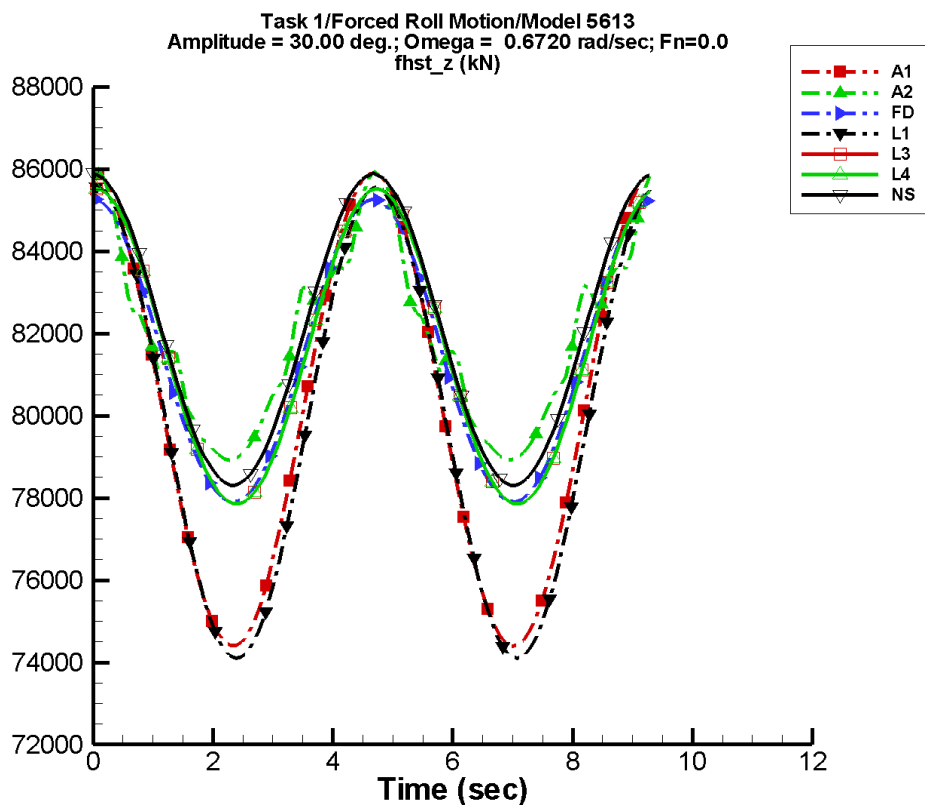
Table C–563. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.44E+04	0.123	-166	1.46E+03	90
A2	8.39E+04	34.7	174	1.54E+03	91
FD	8.43E+04	0.129	155	960.	90
L1	8.41E+04	1.35E-02	-155	1.46E+03	85
L3	8.45E+04	1.41E-02	113	1.00E+03	85
L4	8.45E+04	1.41E-02	113	1.00E+03	85
NF	—	—	—	—	—
NS	8.49E+04	1.14E-02	-40	987.	90

Table C–564. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.30E+04	8.59E+04	8.30E+04	8.59E+04
A2	8.28E+04	8.59E+04	8.28E+04	8.59E+04
FD	8.33E+04	8.53E+04	8.34E+04	8.52E+04
L1	8.26E+04	8.56E+04	8.27E+04	8.56E+04
L3	8.35E+04	8.55E+04	8.35E+04	8.55E+04
L4	8.35E+04	8.55E+04	8.35E+04	8.55E+04
NF	—	—	—	—
NS	8.39E+04	8.59E+04	8.39E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-283. Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

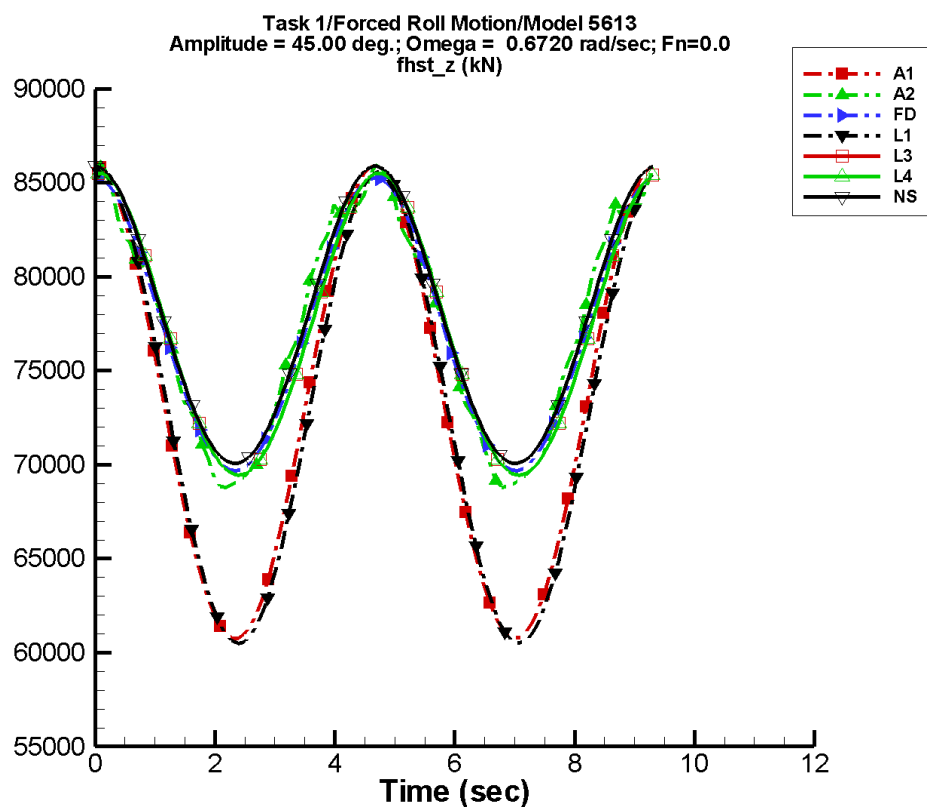
Table C–565. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.01E+04	2.08	-170	5.76E+03	90
A2	8.19E+04	17.0	124	2.97E+03	98
FD	8.15E+04	4.51	151	3.69E+03	90
L1	7.98E+04	0.637	-14	5.73E+03	85
L3	8.16E+04	1.86	-12	3.83E+03	85
L4	8.16E+04	1.86	-12	3.83E+03	85
NF	—	—	—	—	—
NS	8.20E+04	1.23E-02	155	3.78E+03	90

Table C–566. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.44E+04	8.59E+04	7.47E+04	8.57E+04
A2	7.89E+04	8.59E+04	7.91E+04	8.55E+04
FD	7.79E+04	8.53E+04	7.80E+04	8.52E+04
L1	7.41E+04	8.56E+04	7.42E+04	8.56E+04
L3	7.79E+04	8.55E+04	7.79E+04	8.55E+04
L4	7.79E+04	8.55E+04	7.79E+04	8.55E+04
NF	—	—	—	—
NS	7.83E+04	8.59E+04	7.84E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-284. Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

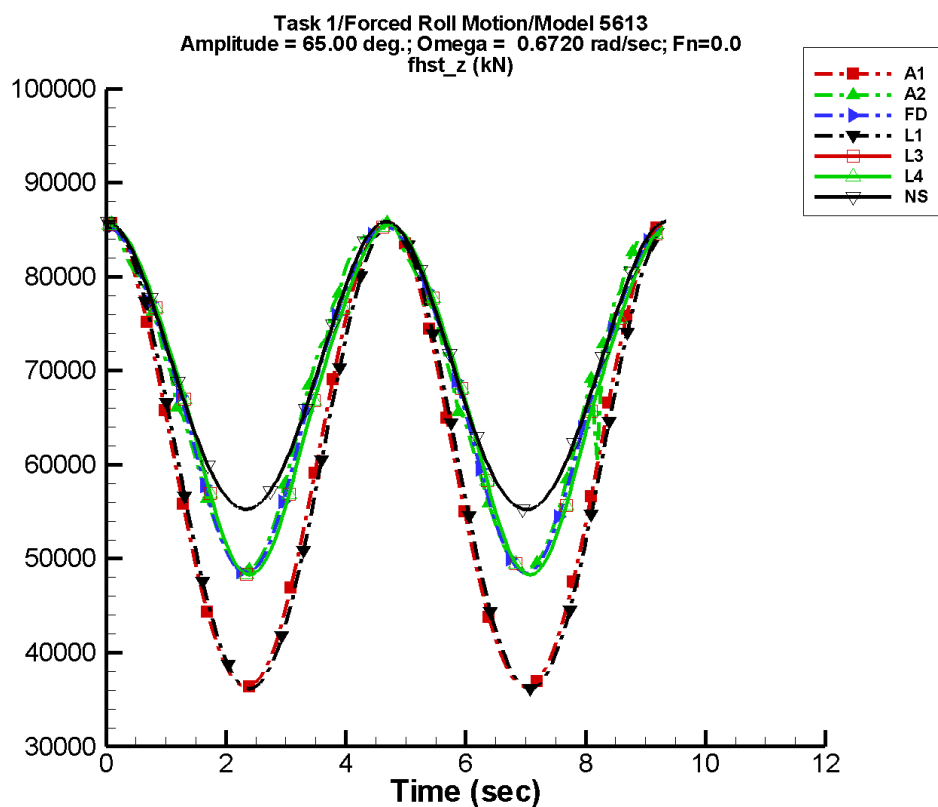
Table C–567. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.32E+04	10.4	-170	1.26E+04	90
A2	7.74E+04	36.0	23	8.02E+03	95
FD	7.73E+04	13.9	150	7.75E+03	90
L1	7.29E+04	4.15	-12	1.25E+04	85
L3	7.72E+04	6.85	-12	7.99E+03	86
L4	7.72E+04	6.85	-12	7.99E+03	86
NF	—	—	—	—	—
NS	7.77E+04	0.138	87	7.88E+03	90

Table C–568. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.07E+04	8.59E+04	6.13E+04	8.55E+04
A2	6.88E+04	8.59E+04	6.93E+04	8.52E+04
FD	6.97E+04	8.53E+04	6.99E+04	8.51E+04
L1	6.05E+04	8.56E+04	6.07E+04	8.56E+04
L3	6.94E+04	8.55E+04	6.96E+04	8.55E+04
L4	6.94E+04	8.55E+04	6.96E+04	8.55E+04
NF	—	—	—	—
NS	7.01E+04	8.59E+04	7.01E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-285. Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

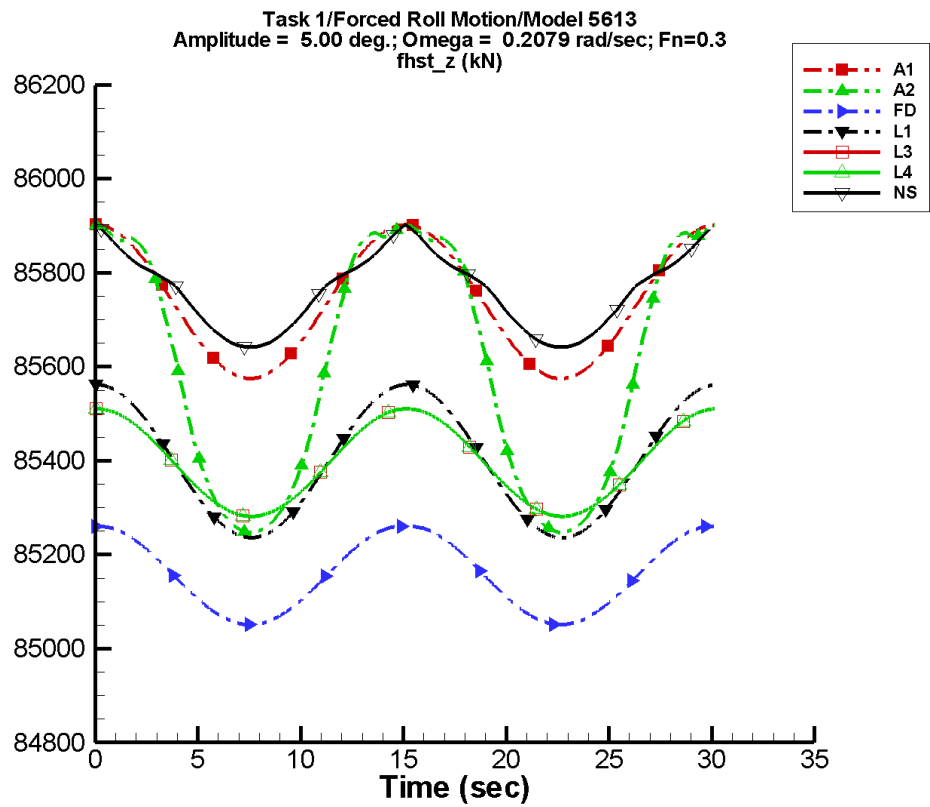
Table C–569. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.04E+04	43.7	-171	2.48E+04	90
A2	6.80E+04	284.	-29	1.79E+04	94
FD	6.78E+04	93.2	-29	1.80E+04	90
L1	6.02E+04	19.1	-11	2.47E+04	86
L3	6.77E+04	39.9	166	1.81E+04	85
L4	6.77E+04	39.9	166	1.81E+04	85
NF	—	—	—	—	—
NS	6.99E+04	8.84	0	1.52E+04	90

Table C–570. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.63E+04	8.59E+04	3.73E+04	8.51E+04
A2	4.87E+04	8.59E+04	4.98E+04	8.48E+04
FD	4.84E+04	8.53E+04	4.93E+04	8.48E+04
L1	3.62E+04	8.56E+04	3.65E+04	8.55E+04
L3	4.83E+04	8.55E+04	4.87E+04	8.55E+04
L4	4.83E+04	8.55E+04	4.87E+04	8.55E+04
NF	—	—	—	—
NS	5.52E+04	8.59E+04	5.53E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-286. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

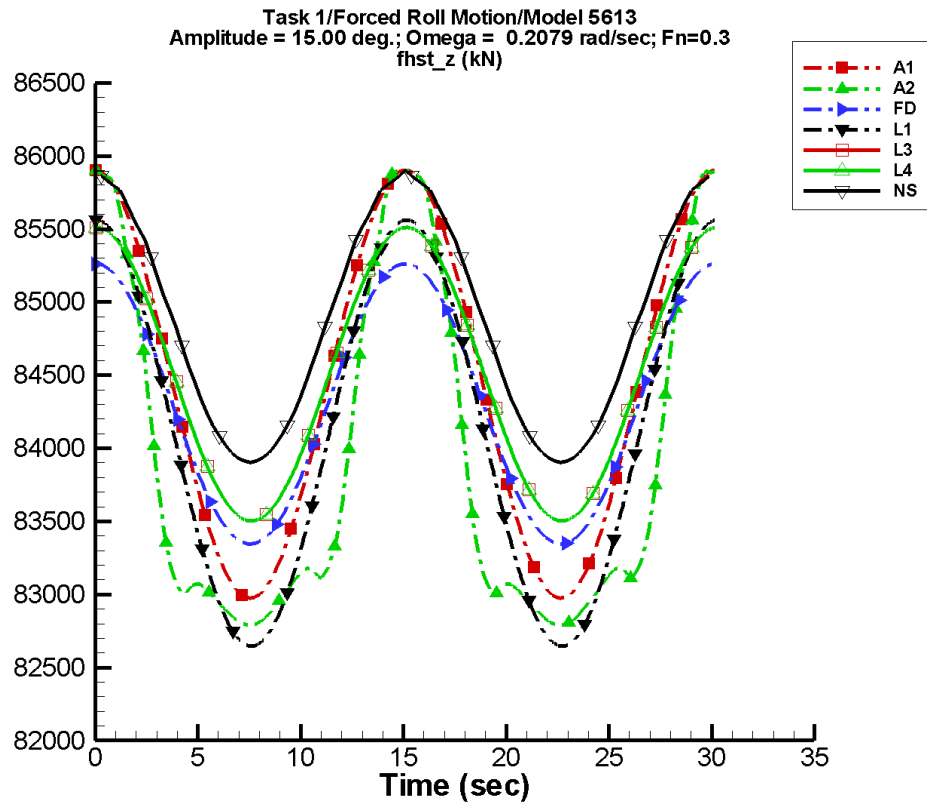
Table C-571. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	6.13E-03	-147	164.	90
A2	8.56E+04	0.602	-39	352.	88
FD	8.52E+04	3.73E-02	-38	106.	90
L1	8.54E+04	7.51E-02	-13	163.	89
L3	8.54E+04	1.38E-02	25	115.	89
L4	8.54E+04	1.38E-02	25	115.	89
NF	—	—	—	—	—
NS	8.58E+04	4.44E-03	-127	113.	90

Table C-572. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.52E+04	8.59E+04	8.52E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.52E+04	8.56E+04	8.52E+04	8.56E+04
L3	8.53E+04	8.55E+04	8.53E+04	8.55E+04
L4	8.53E+04	8.55E+04	8.53E+04	8.55E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.56E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-287. Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

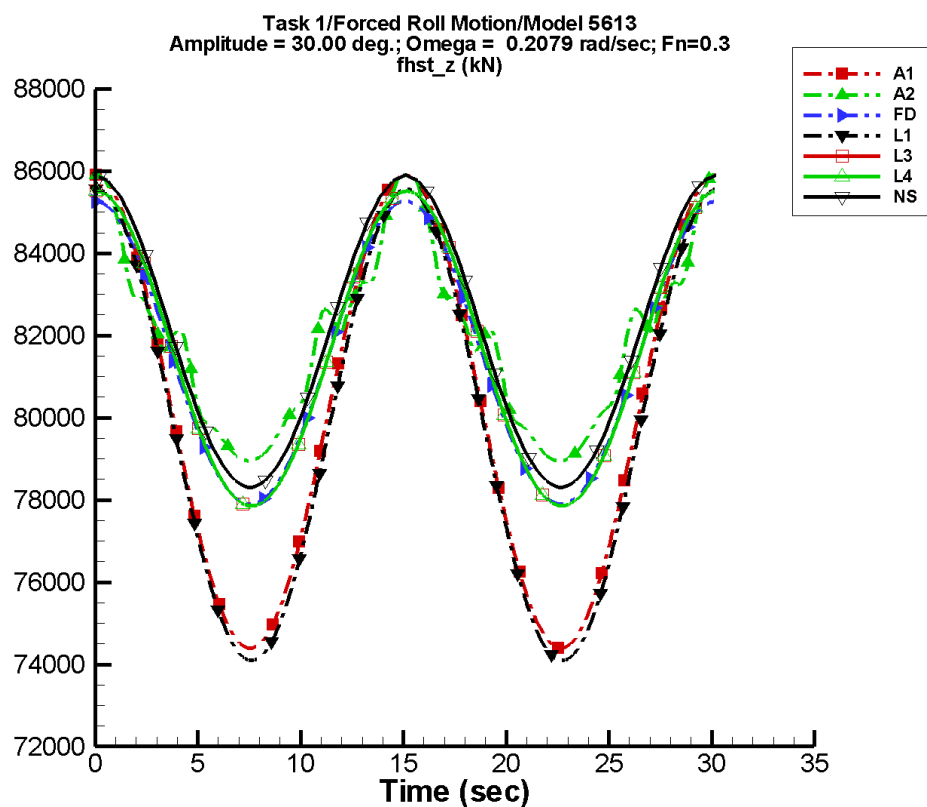
Table C–573. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.44E+04	1.42E-02	151	1.46E+03	90
A2	8.39E+04	8.32	175	1.51E+03	92
FD	8.43E+04	6.20E-02	-143	960.	90
L1	8.41E+04	0.127	106	1.46E+03	89
L3	8.45E+04	0.219	108	1.00E+03	89
L4	8.45E+04	0.219	108	1.00E+03	89
NF	—	—	—	—	—
NS	8.49E+04	7.72E-03	119	987.	90

Table C–574. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.30E+04	8.59E+04	8.30E+04	8.59E+04
A2	8.28E+04	8.59E+04	8.28E+04	8.59E+04
FD	8.33E+04	8.53E+04	8.34E+04	8.53E+04
L1	8.26E+04	8.56E+04	8.26E+04	8.56E+04
L3	8.35E+04	8.55E+04	8.35E+04	8.55E+04
L4	8.35E+04	8.55E+04	8.35E+04	8.55E+04
NF	—	—	—	—
NS	8.39E+04	8.59E+04	8.39E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-288. Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

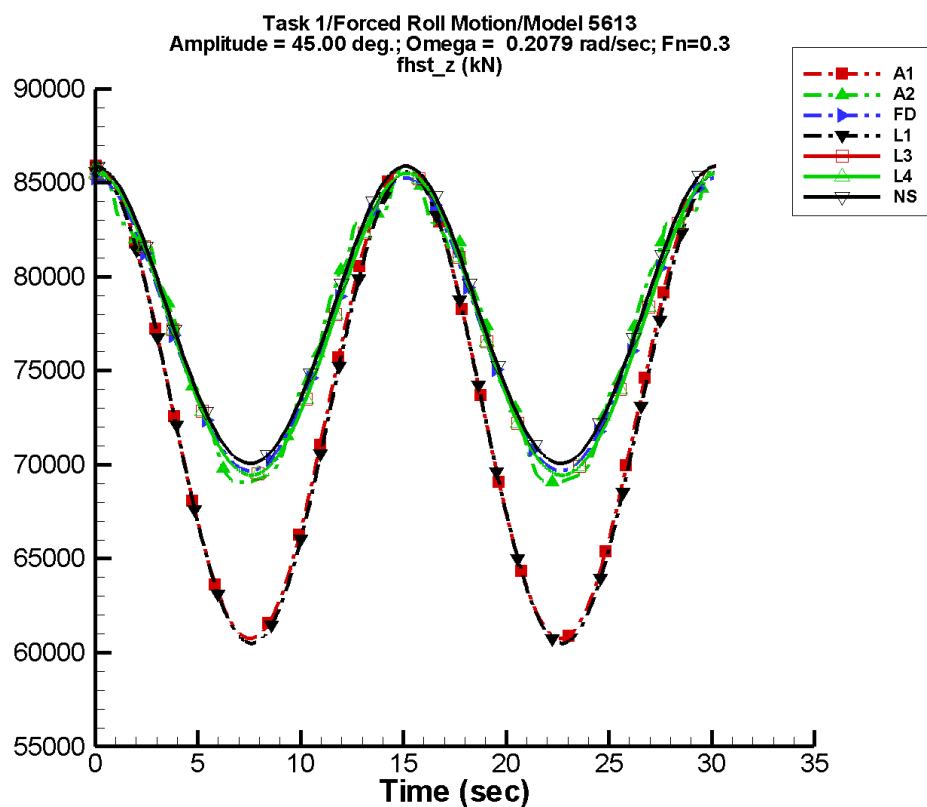
Table C–575. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.01E+04	0.433	-158	5.75E+03	90
A2	8.19E+04	10.1	128	2.91E+03	93
FD	8.15E+04	1.46	-171	3.69E+03	90
L1	7.98E+04	2.41	120	5.73E+03	89
L3	8.16E+04	4.72	120	3.83E+03	89
L4	8.16E+04	4.72	120	3.83E+03	89
NF	—	—	—	—	—
NS	8.20E+04	5.87E-03	-77	3.78E+03	90

Table C–576. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.44E+04	8.59E+04	7.44E+04	8.59E+04
A2	7.90E+04	8.59E+04	7.90E+04	8.59E+04
FD	7.79E+04	8.53E+04	7.79E+04	8.53E+04
L1	7.41E+04	8.56E+04	7.41E+04	8.56E+04
L3	7.79E+04	8.55E+04	7.79E+04	8.55E+04
L4	7.79E+04	8.55E+04	7.79E+04	8.55E+04
NF	—	—	—	—
NS	7.83E+04	8.59E+04	7.84E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-289. Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

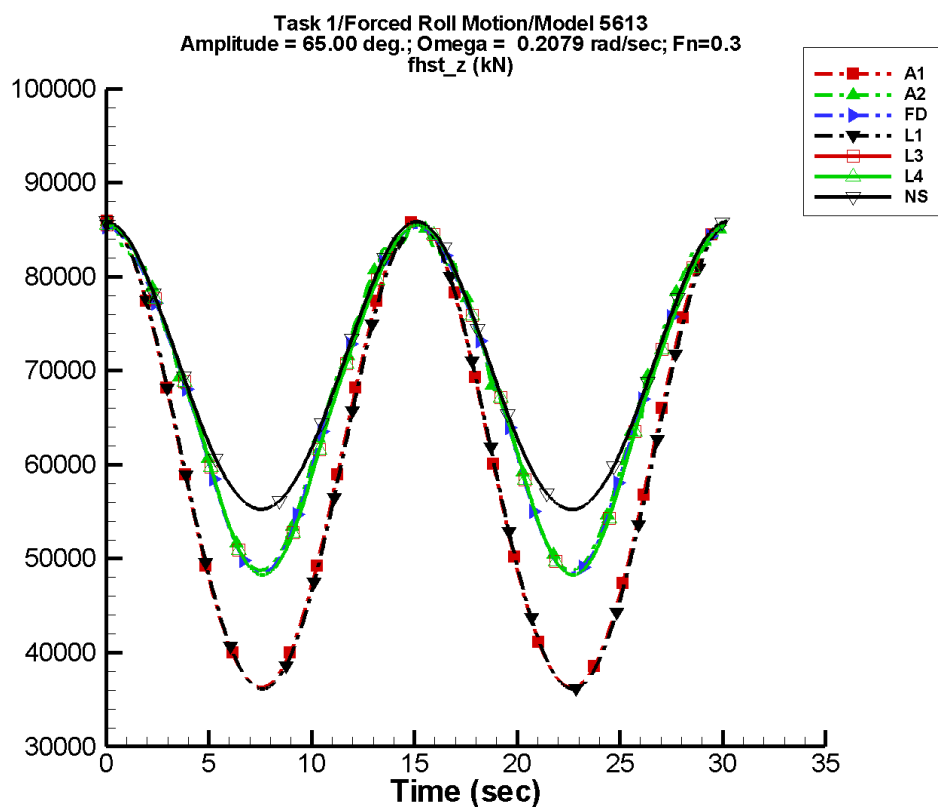
Table C–577. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.32E+04	2.17	-160	1.26E+04	90
A2	7.73E+04	7.23	69	7.99E+03	91
FD	7.73E+04	4.48	-176	7.76E+03	90
L1	7.29E+04	12.0	120	1.25E+04	89
L3	7.72E+04	19.7	119	7.98E+03	89
L4	7.72E+04	19.7	119	7.98E+03	89
NF	—	—	—	—	—
NS	7.77E+04	0.141	84	7.88E+03	90

Table C–578. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.07E+04	8.59E+04	6.08E+04	8.59E+04
A2	6.91E+04	8.59E+04	6.90E+04	8.59E+04
FD	6.97E+04	8.53E+04	6.97E+04	8.53E+04
L1	6.05E+04	8.56E+04	6.05E+04	8.55E+04
L3	6.94E+04	8.55E+04	6.94E+04	8.55E+04
L4	6.94E+04	8.55E+04	6.94E+04	8.55E+04
NF	—	—	—	—
NS	7.01E+04	8.59E+04	7.01E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-290. Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

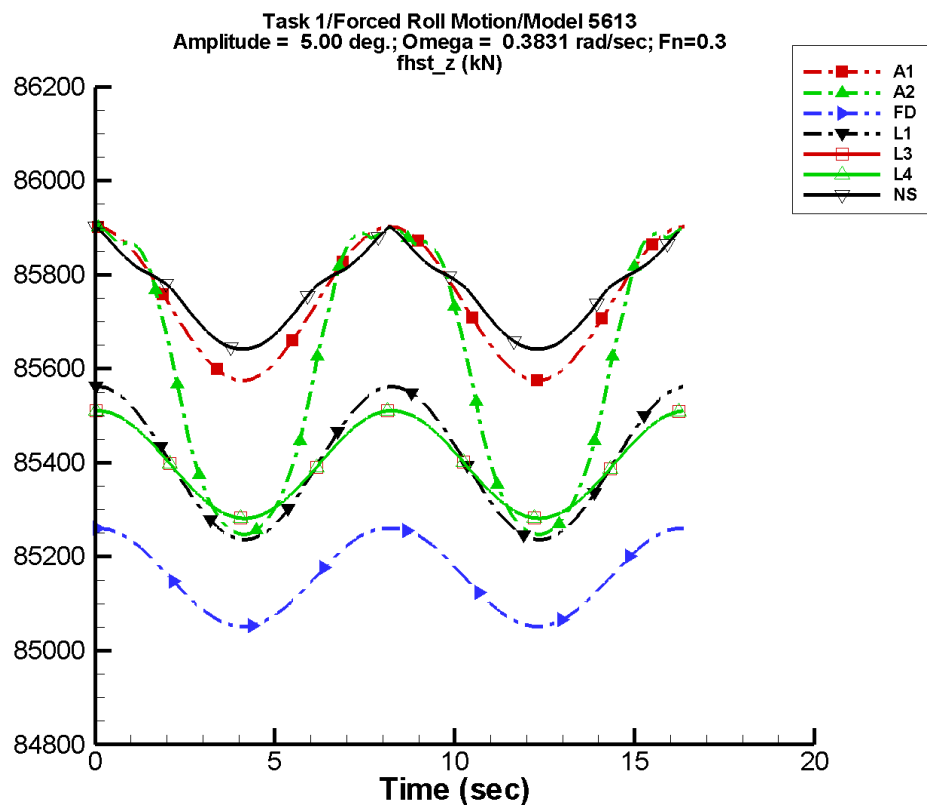
Table C–579. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.04E+04	9.26	-161	2.48E+04	90
A2	6.81E+04	29.7	-2	1.78E+04	91
FD	6.79E+04	28.8	14	1.79E+04	90
L1	6.01E+04	50.7	120	2.47E+04	89
L3	6.78E+04	47.0	-55	1.81E+04	89
L4	6.78E+04	47.0	-55	1.81E+04	89
NF	—	—	—	—	—
NS	6.99E+04	8.87	0	1.52E+04	90

Table C–580. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.63E+04	8.59E+04	3.64E+04	8.59E+04
A2	4.88E+04	8.59E+04	4.89E+04	8.59E+04
FD	4.84E+04	8.53E+04	4.85E+04	8.53E+04
L1	3.61E+04	8.56E+04	3.62E+04	8.55E+04
L3	4.83E+04	8.55E+04	4.83E+04	8.55E+04
L4	4.83E+04	8.55E+04	4.83E+04	8.55E+04
NF	—	—	—	—
NS	5.52E+04	8.59E+04	5.53E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-291. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

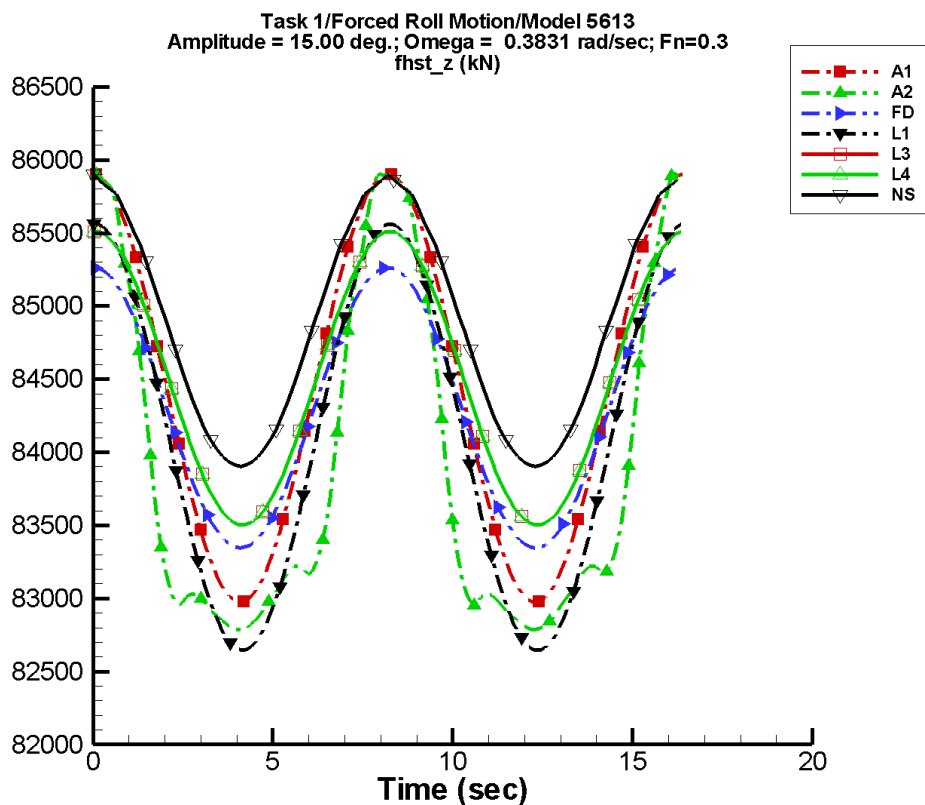
Table C–581. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	1.03E-02	-44	164.	90
A2	8.56E+04	0.658	-43	352.	87
FD	8.52E+04	3.39E-02	-45	106.	90
L1	8.54E+04	1.42E-02	-128	163.	87
L3	8.54E+04	7.05E-02	143	115.	87
L4	8.54E+04	7.05E-02	143	115.	87
NF	—	—	—	—	—
NS	8.58E+04	4.06E-03	96	113.	90

Table C–582. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.52E+04	8.59E+04	8.52E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.52E+04	8.56E+04	8.52E+04	8.56E+04
L3	8.53E+04	8.55E+04	8.53E+04	8.55E+04
L4	8.53E+04	8.55E+04	8.53E+04	8.55E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.56E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-292. Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

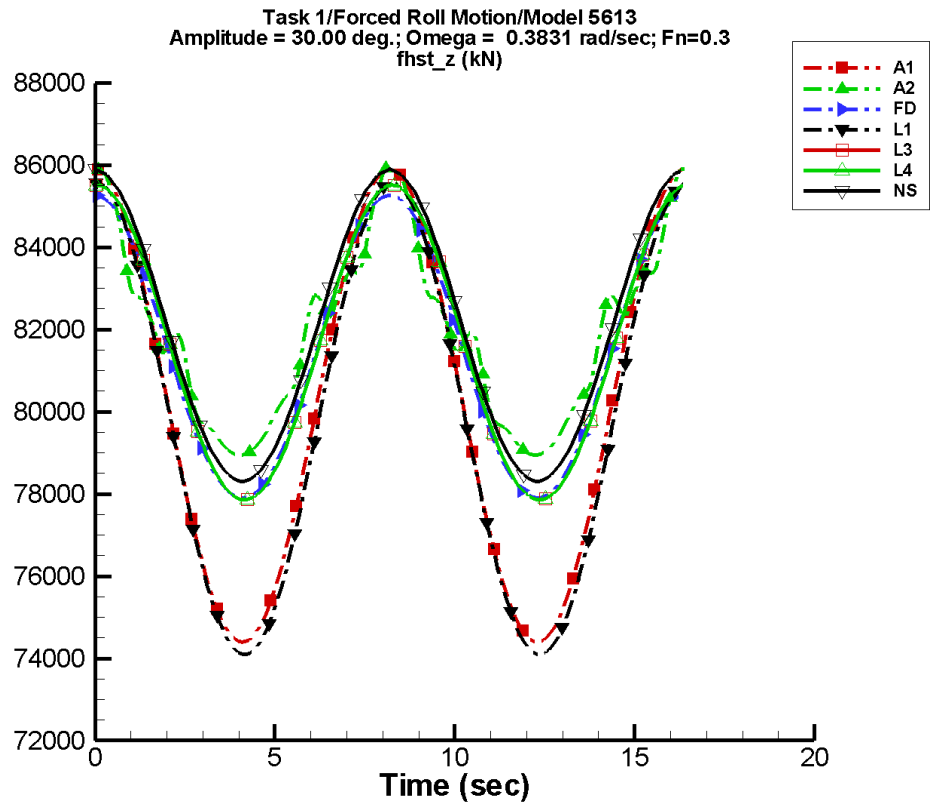
Table C–583. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.44E+04	3.16E-02	-130	1.46E+03	90
A2	8.39E+04	5.46	172	1.50E+03	92
FD	8.43E+04	0.116	123	960.	90
L1	8.41E+04	0.210	153	1.46E+03	87
L3	8.45E+04	0.244	150	1.00E+03	87
L4	8.45E+04	0.244	150	1.00E+03	87
NF	—	—	—	—	—
NS	8.49E+04	5.08E-03	-61	987.	90

Table C–584. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.30E+04	8.59E+04	8.30E+04	8.59E+04
A2	8.28E+04	8.59E+04	8.28E+04	8.59E+04
FD	8.33E+04	8.53E+04	8.34E+04	8.53E+04
L1	8.26E+04	8.56E+04	8.27E+04	8.56E+04
L3	8.35E+04	8.55E+04	8.35E+04	8.55E+04
L4	8.35E+04	8.55E+04	8.35E+04	8.55E+04
NF	—	—	—	—
NS	8.39E+04	8.59E+04	8.39E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-293. Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

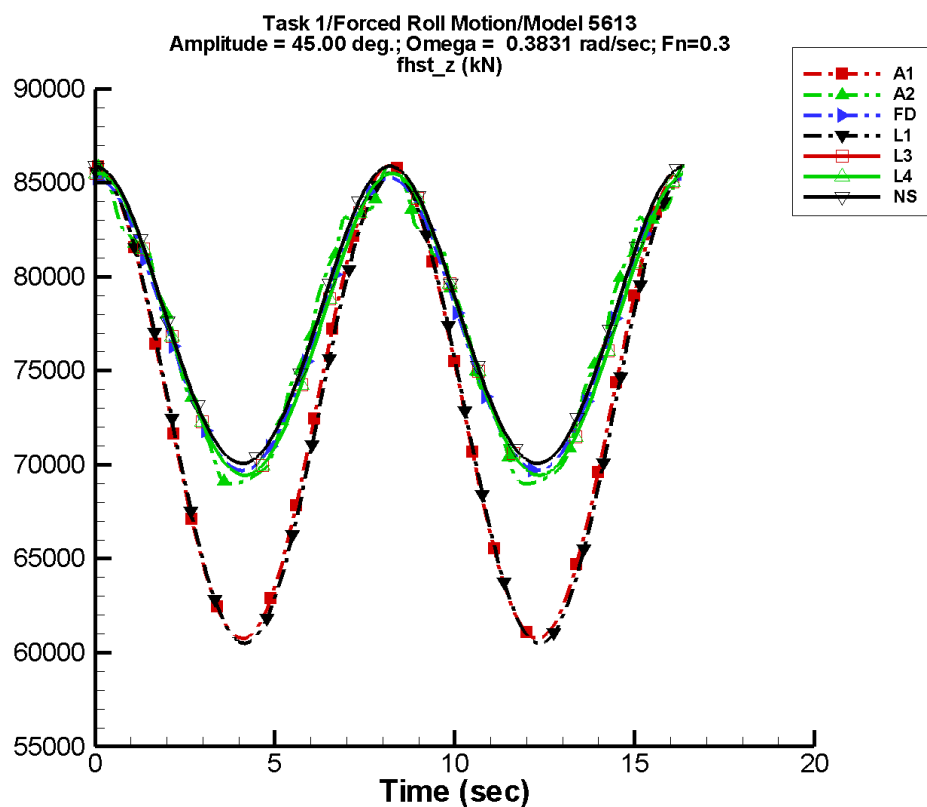
Table C–585. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.01E+04	0.304	-94	5.75E+03	90
A2	8.19E+04	11.1	128	2.93E+03	95
FD	8.15E+04	3.13	121	3.68E+03	90
L1	7.98E+04	2.69	148	5.73E+03	87
L3	8.16E+04	5.43	148	3.83E+03	87
L4	8.16E+04	5.43	148	3.83E+03	87
NF	—	—	—	—	—
NS	8.20E+04	1.14E-02	7	3.78E+03	90

Table C–586. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.44E+04	8.59E+04	7.44E+04	8.59E+04
A2	7.89E+04	8.59E+04	7.89E+04	8.58E+04
FD	7.79E+04	8.53E+04	7.80E+04	8.52E+04
L1	7.41E+04	8.56E+04	7.41E+04	8.56E+04
L3	7.79E+04	8.55E+04	7.79E+04	8.55E+04
L4	7.79E+04	8.55E+04	7.79E+04	8.55E+04
NF	—	—	—	—
NS	7.83E+04	8.59E+04	7.84E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-294. Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

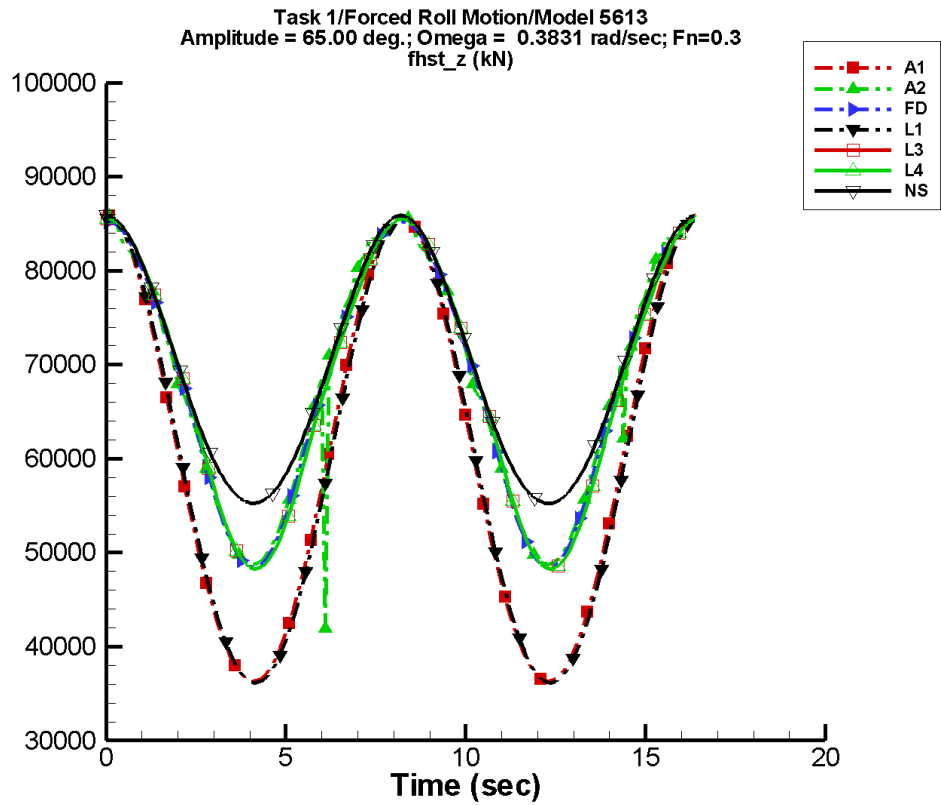
Table C–587. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.32E+04	1.46	-97	1.26E+04	90
A2	7.73E+04	6.93	86	8.00E+03	93
FD	7.73E+04	9.60	120	7.74E+03	90
L1	7.29E+04	13.1	148	1.25E+04	87
L3	7.72E+04	19.3	147	7.99E+03	88
L4	7.72E+04	19.3	147	7.99E+03	88
NF	—	—	—	—	—
NS	7.77E+04	0.143	92	7.88E+03	90

Table C–588. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.07E+04	8.59E+04	6.07E+04	8.58E+04
A2	6.90E+04	8.59E+04	6.89E+04	8.57E+04
FD	6.97E+04	8.53E+04	6.98E+04	8.52E+04
L1	6.05E+04	8.56E+04	6.06E+04	8.56E+04
L3	6.94E+04	8.55E+04	6.95E+04	8.55E+04
L4	6.94E+04	8.55E+04	6.95E+04	8.55E+04
NF	—	—	—	—
NS	7.01E+04	8.59E+04	7.01E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-295. Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

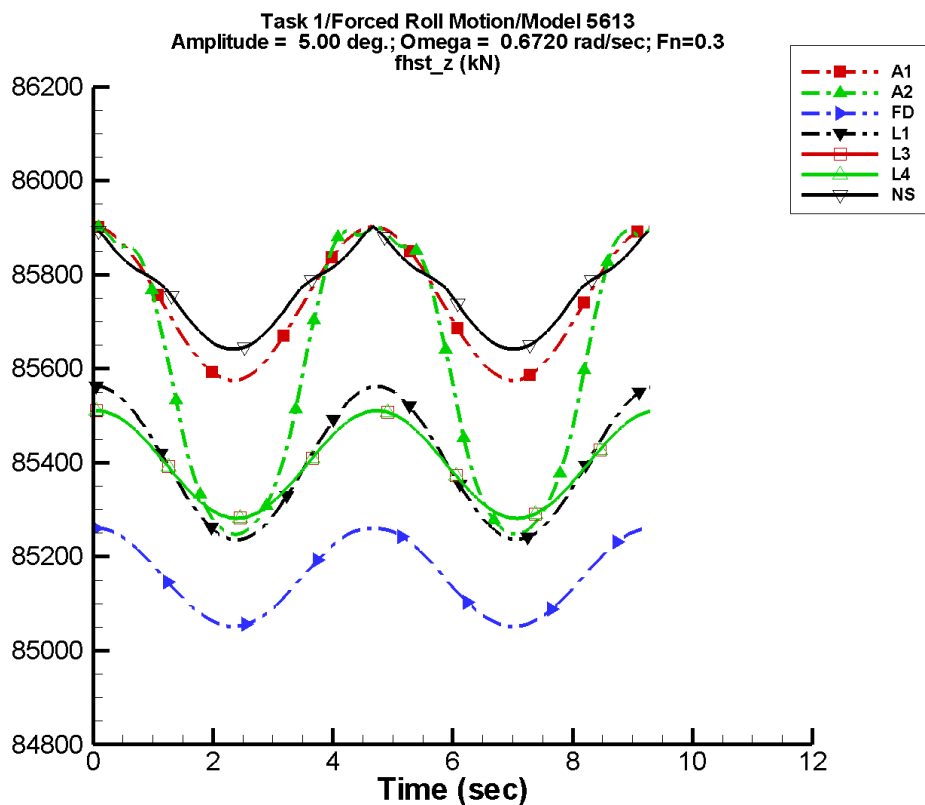
Table C–589. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.04E+04	6.11	-97	2.48E+04	90
A2	6.79E+04	201.	134	1.79E+04	91
FD	6.79E+04	68.1	-58	1.80E+04	90
L1	6.02E+04	54.7	147	2.47E+04	88
L3	6.77E+04	85.5	-30	1.81E+04	87
L4	6.77E+04	85.5	-30	1.81E+04	87
NF	—	—	—	—	—
NS	6.99E+04	9.13	-13	1.52E+04	90

Table C–590. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.63E+04	8.59E+04	3.62E+04	8.57E+04
A2	4.19E+04	8.59E+04	4.91E+04	8.56E+04
FD	4.84E+04	8.53E+04	4.88E+04	8.51E+04
L1	3.61E+04	8.56E+04	3.63E+04	8.56E+04
L3	4.83E+04	8.55E+04	4.84E+04	8.55E+04
L4	4.83E+04	8.55E+04	4.84E+04	8.55E+04
NF	—	—	—	—
NS	5.52E+04	8.59E+04	5.53E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-296. Time history of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

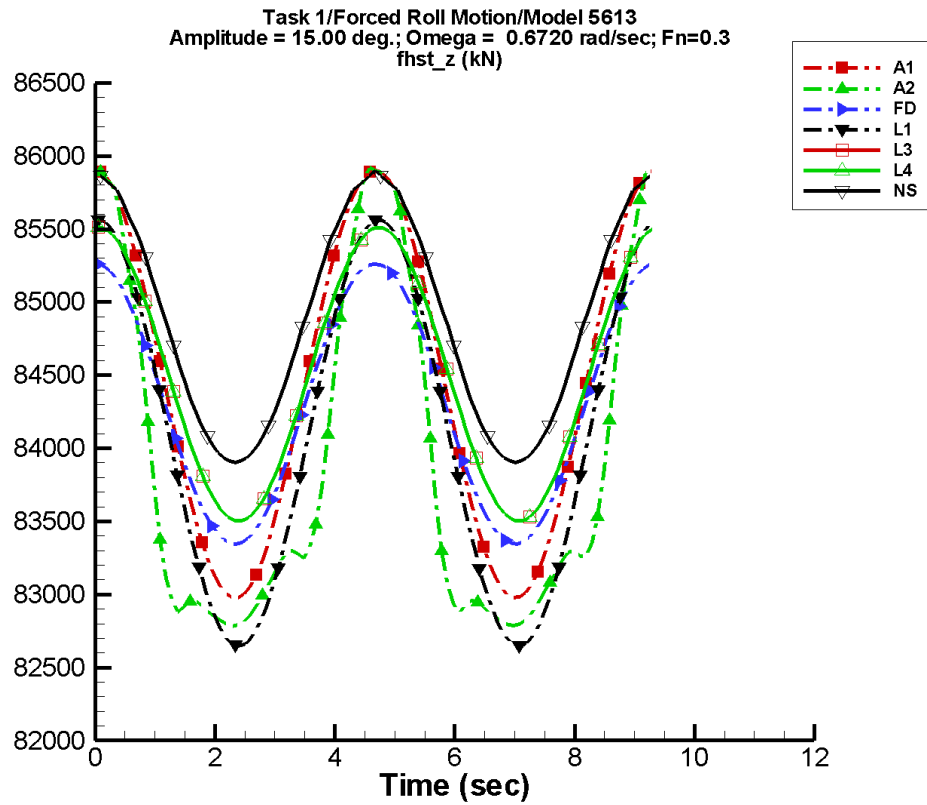
Table C–591. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57E+04	1.43E-02	-81	164.	90
A2	8.56E+04	1.41	-27	350.	86
FD	8.52E+04	8.27E-02	-32	106.	90
L1	8.54E+04	1.50E-02	161	163.	85
L3	8.54E+04	1.29E-02	-158	115.	85
L4	8.54E+04	1.29E-02	-158	115.	85
NF	—	—	—	—	—
NS	8.58E+04	1.25E-02	-34	113.	90

Table C–592. Minimum and maximum of F_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.56E+04	8.59E+04	8.56E+04	8.59E+04
A2	8.52E+04	8.59E+04	8.53E+04	8.59E+04
FD	8.51E+04	8.53E+04	8.51E+04	8.53E+04
L1	8.52E+04	8.56E+04	8.52E+04	8.56E+04
L3	8.53E+04	8.55E+04	8.53E+04	8.55E+04
L4	8.53E+04	8.55E+04	8.53E+04	8.55E+04
NF	—	—	—	—
NS	8.56E+04	8.59E+04	8.56E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-297. Time history of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

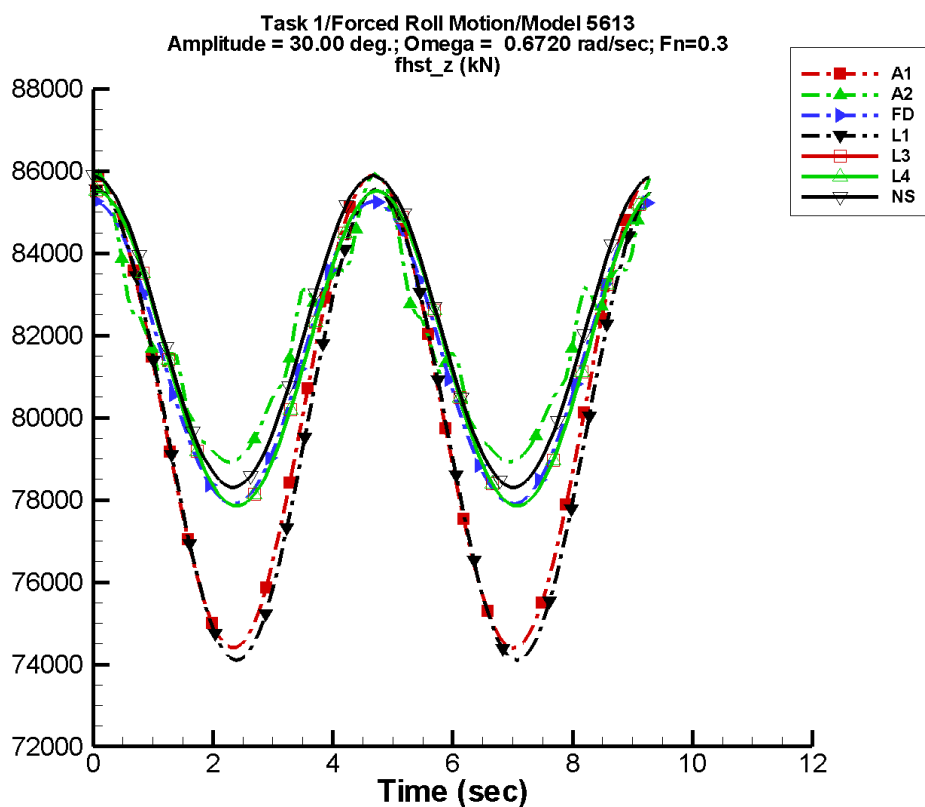
Table C–593. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.44E+04	0.123	-166	1.46E+03	90
A2	8.39E+04	34.7	174	1.54E+03	91
FD	8.43E+04	0.130	156	960.	90
L1	8.41E+04	1.35E-02	-155	1.46E+03	85
L3	8.45E+04	2.52E-02	103	1.00E+03	85
L4	8.45E+04	2.52E-02	103	1.00E+03	85
NF	—	—	—	—	—
NS	8.49E+04	1.14E-02	-40	987.	90

Table C–594. Minimum and maximum of F_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	8.30E+04	8.59E+04	8.30E+04	8.59E+04
A2	8.28E+04	8.59E+04	8.28E+04	8.59E+04
FD	8.33E+04	8.53E+04	8.34E+04	8.52E+04
L1	8.26E+04	8.56E+04	8.27E+04	8.56E+04
L3	8.35E+04	8.55E+04	8.35E+04	8.55E+04
L4	8.35E+04	8.55E+04	8.35E+04	8.55E+04
NF	—	—	—	—
NS	8.39E+04	8.59E+04	8.39E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-298. Time history of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

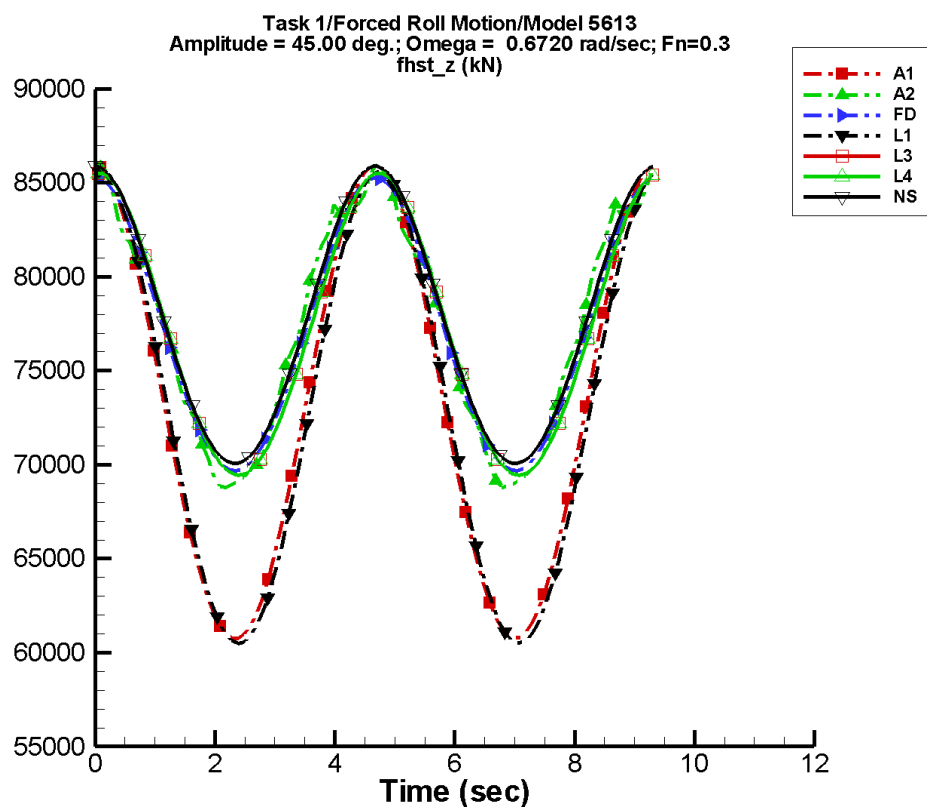
Table C–595. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.01E+04	2.08	-170	5.76E+03	90
A2	8.19E+04	17.0	124	2.97E+03	98
FD	8.15E+04	4.50	151	3.69E+03	90
L1	7.98E+04	0.637	-14	5.73E+03	85
L3	8.16E+04	1.85	-12	3.83E+03	85
L4	8.16E+04	1.85	-12	3.83E+03	85
NF	—	—	—	—	—
NS	8.20E+04	1.23E-02	155	3.78E+03	90

Table C–596. Minimum and maximum of F_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	7.44E+04	8.59E+04	7.47E+04	8.57E+04
A2	7.89E+04	8.59E+04	7.91E+04	8.55E+04
FD	7.79E+04	8.53E+04	7.80E+04	8.52E+04
L1	7.41E+04	8.56E+04	7.42E+04	8.56E+04
L3	7.79E+04	8.55E+04	7.79E+04	8.55E+04
L4	7.79E+04	8.55E+04	7.79E+04	8.55E+04
NF	—	—	—	—
NS	7.83E+04	8.59E+04	7.84E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-299. Time history of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

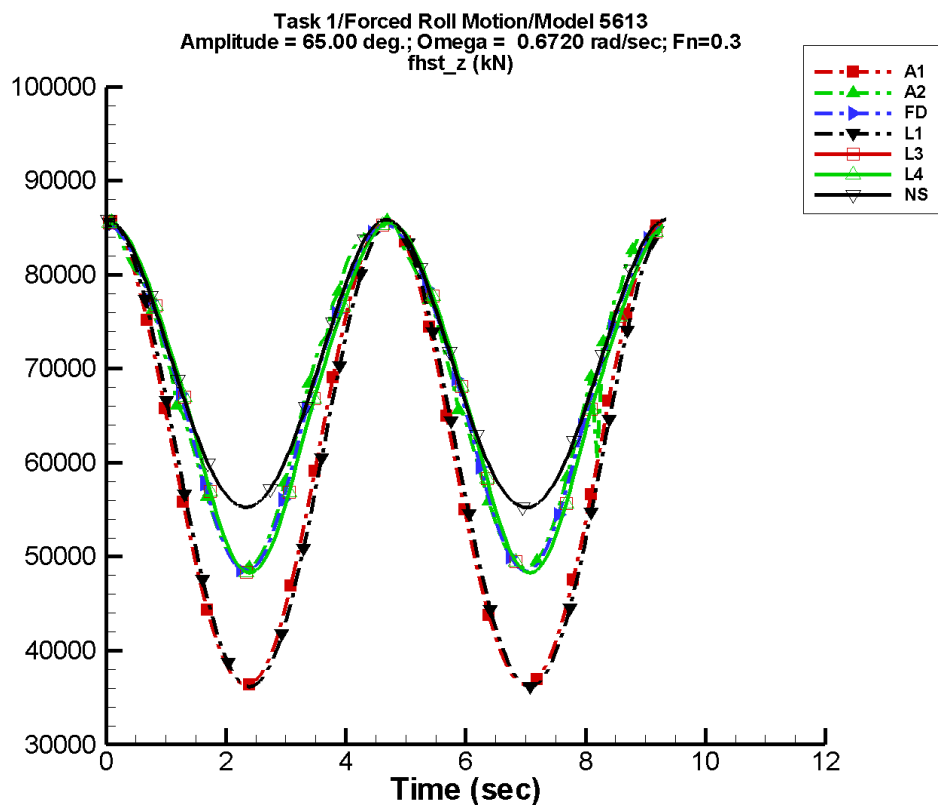
Table C–597. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	7.32E+04	10.4	-170	1.26E+04	90
A2	7.74E+04	36.0	23	8.02E+03	95
FD	7.73E+04	13.9	150	7.75E+03	90
L1	7.29E+04	4.15	-12	1.25E+04	85
L3	7.72E+04	6.85	-12	7.99E+03	86
L4	7.72E+04	6.85	-12	7.99E+03	86
NF	—	—	—	—	—
NS	7.77E+04	0.138	87	7.88E+03	90

Table C–598. Minimum and maximum of F_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	6.07E+04	8.59E+04	6.13E+04	8.55E+04
A2	6.88E+04	8.59E+04	6.93E+04	8.52E+04
FD	6.97E+04	8.53E+04	6.99E+04	8.51E+04
L1	6.05E+04	8.56E+04	6.07E+04	8.56E+04
L3	6.94E+04	8.55E+04	6.96E+04	8.55E+04
L4	6.94E+04	8.55E+04	6.96E+04	8.55E+04
NF	—	—	—	—
NS	7.01E+04	8.59E+04	7.01E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-300. Time history of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

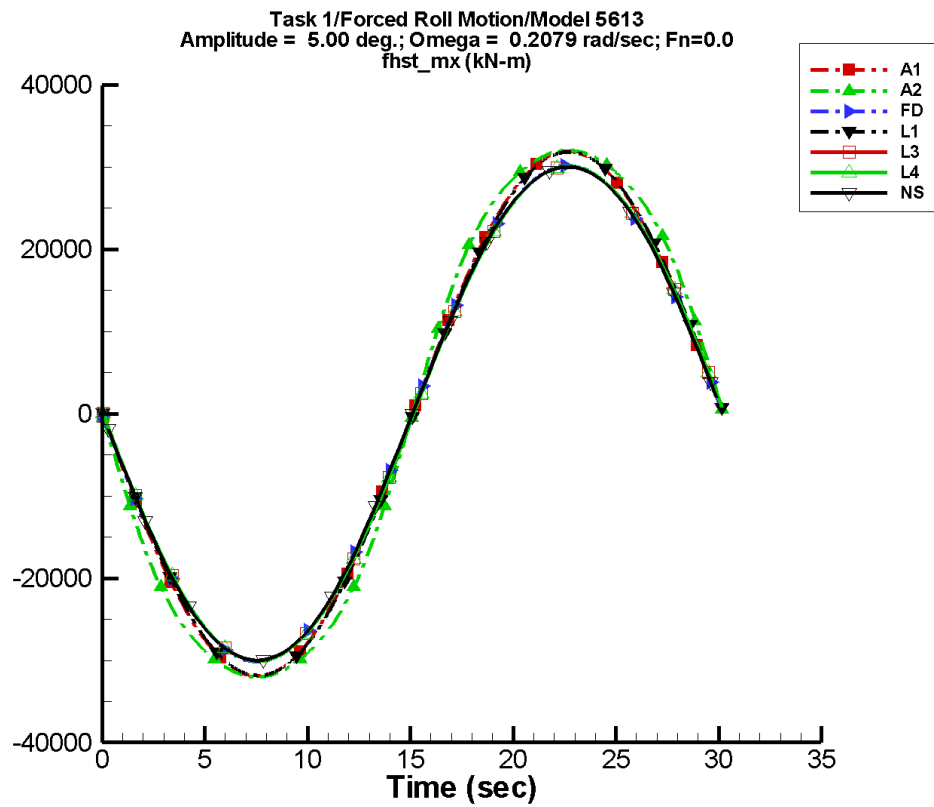
Table C–599. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.04E+04	43.7	-171	2.48E+04	90
A2	6.80E+04	284.	-29	1.79E+04	94
FD	6.78E+04	93.2	-29	1.80E+04	90
L1	6.02E+04	19.1	-11	2.47E+04	86
L3	6.77E+04	39.9	166	1.81E+04	85
L4	6.77E+04	39.9	166	1.81E+04	85
NF	—	—	—	—	—
NS	6.99E+04	8.84	0	1.52E+04	90

Table C–600. Minimum and maximum of F_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	3.63E+04	8.59E+04	3.73E+04	8.51E+04
A2	4.87E+04	8.59E+04	4.98E+04	8.48E+04
FD	4.84E+04	8.53E+04	4.93E+04	8.48E+04
L1	3.62E+04	8.56E+04	3.65E+04	8.55E+04
L3	4.83E+04	8.55E+04	4.87E+04	8.55E+04
L4	4.83E+04	8.55E+04	4.87E+04	8.55E+04
NF	—	—	—	—
NS	5.52E+04	8.59E+04	5.53E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-301. Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

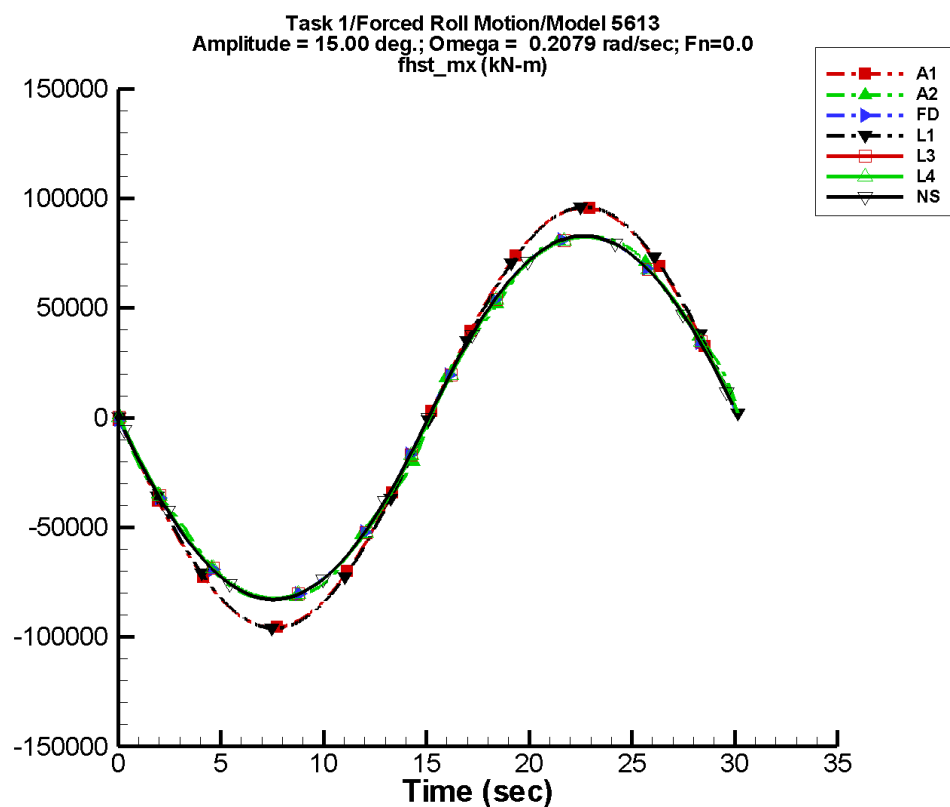
Table C–601. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	2.05E-02	3.19E+04	180	2.91E-02	166
A2	-58.3	3.38E+04	-180	342.	-118
FD	-7.78	3.04E+04	-180	36.9	-119
L1	0.315	3.18E+04	179	1.27	87
L3	-18.4	3.03E+04	179	71.3	-93
L4	-18.4	3.03E+04	179	71.3	-93
NF	—	—	—	—	—
NS	-1.94E-03	3.02E+04	-180	4.51E-03	-172

Table C–602. Minimum and maximum of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.19E+04	3.19E+04	-3.19E+04	3.19E+04
A2	-3.20E+04	3.20E+04	-3.20E+04	3.20E+04
FD	-3.02E+04	3.02E+04	-3.01E+04	3.01E+04
L1	-3.18E+04	3.18E+04	-3.18E+04	3.18E+04
L3	-3.01E+04	3.01E+04	-3.01E+04	3.01E+04
L4	-3.01E+04	3.01E+04	-3.01E+04	3.01E+04
NF	—	—	—	—
NS	-3.00E+04	3.00E+04	-2.97E+04	2.97E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-302. Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

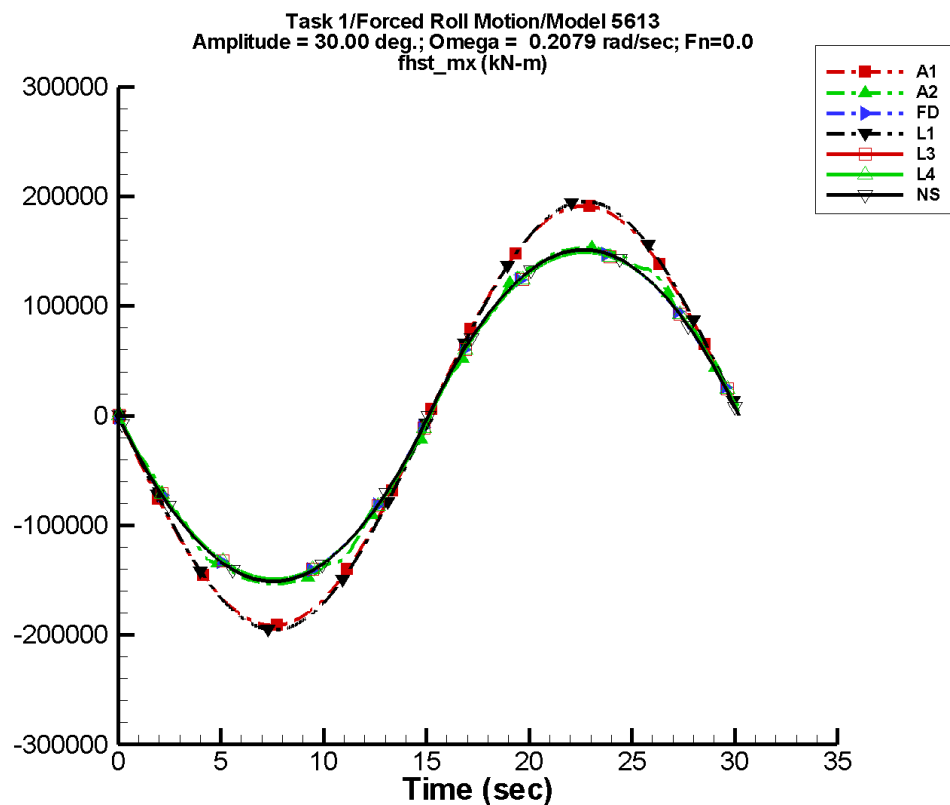
Table C–603. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	6.81E-02	9.57E+04	180	9.62E-02	161
A2	-118.	8.47E+04	179	387.	-105
FD	-65.6	8.43E+04	-180	304.	-117
L1	8.48	9.59E+04	179	34.2	87
L3	-125.	8.40E+04	179	485.	-94
L4	-125.	8.40E+04	179	485.	-94
NF	—	—	—	—	—
NS	-4.71E-03	8.44E+04	-180	5.14E-03	-168

Table C–604. Minimum and maximum of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.57E+04	9.57E+04	-9.57E+04	9.56E+04
A2	-8.27E+04	8.27E+04	-8.27E+04	8.26E+04
FD	-8.27E+04	8.27E+04	-8.27E+04	8.27E+04
L1	-9.60E+04	9.60E+04	-9.60E+04	9.60E+04
L3	-8.24E+04	8.24E+04	-8.24E+04	8.24E+04
L4	-8.24E+04	8.24E+04	-8.24E+04	8.24E+04
NF	—	—	—	—
NS	-8.29E+04	8.29E+04	-8.22E+04	8.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-303. Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

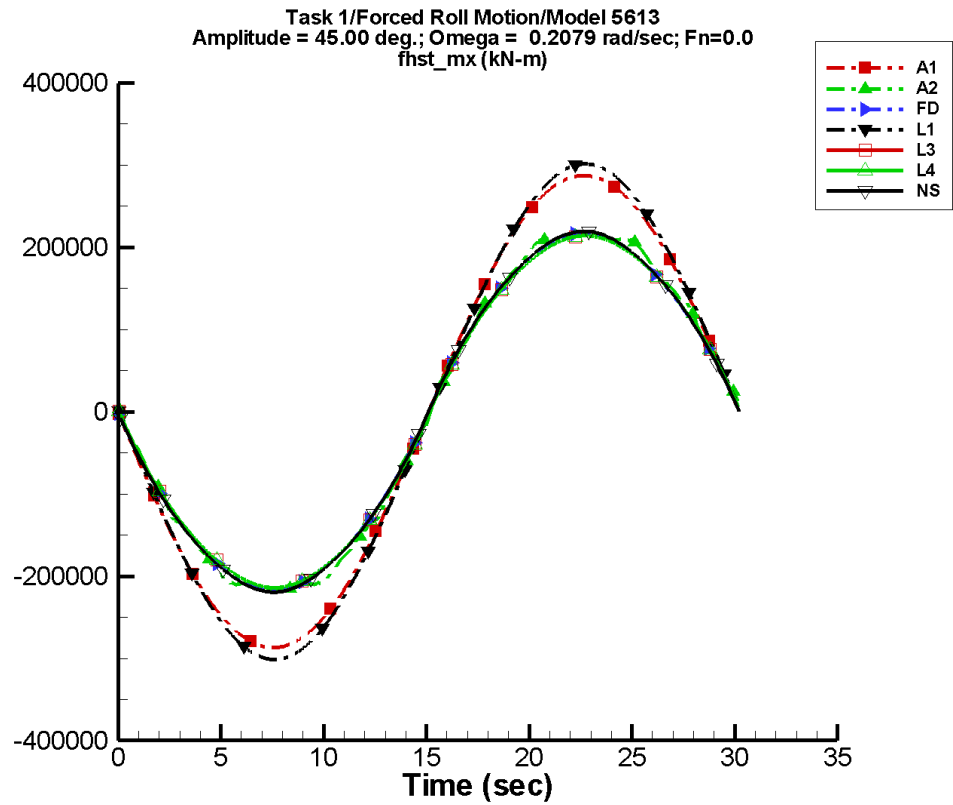
Table C–605. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.125	1.91E+05	180	0.187	163
A2	-177.	1.59E+05	179	855.	-122
FD	-194.	1.55E+05	-180	873.	-115
L1	68.1	1.94E+05	179	270.	87
L3	-358.	1.54E+05	179	1.38E+03	-94
L4	-358.	1.54E+05	179	1.38E+03	-94
NF	—	—	—	—	—
NS	-5.91E-03	1.55E+05	-180	1.53E-02	-127

Table C–606. Minimum and maximum of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.91E+05	1.91E+05	-1.91E+05	1.91E+05
A2	-1.53E+05	1.53E+05	-1.53E+05	1.53E+05
FD	-1.50E+05	1.50E+05	-1.50E+05	1.50E+05
L1	-1.95E+05	1.95E+05	-1.95E+05	1.95E+05
L3	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
L4	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
NF	—	—	—	—
NS	-1.51E+05	1.51E+05	-1.51E+05	1.51E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-304. Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

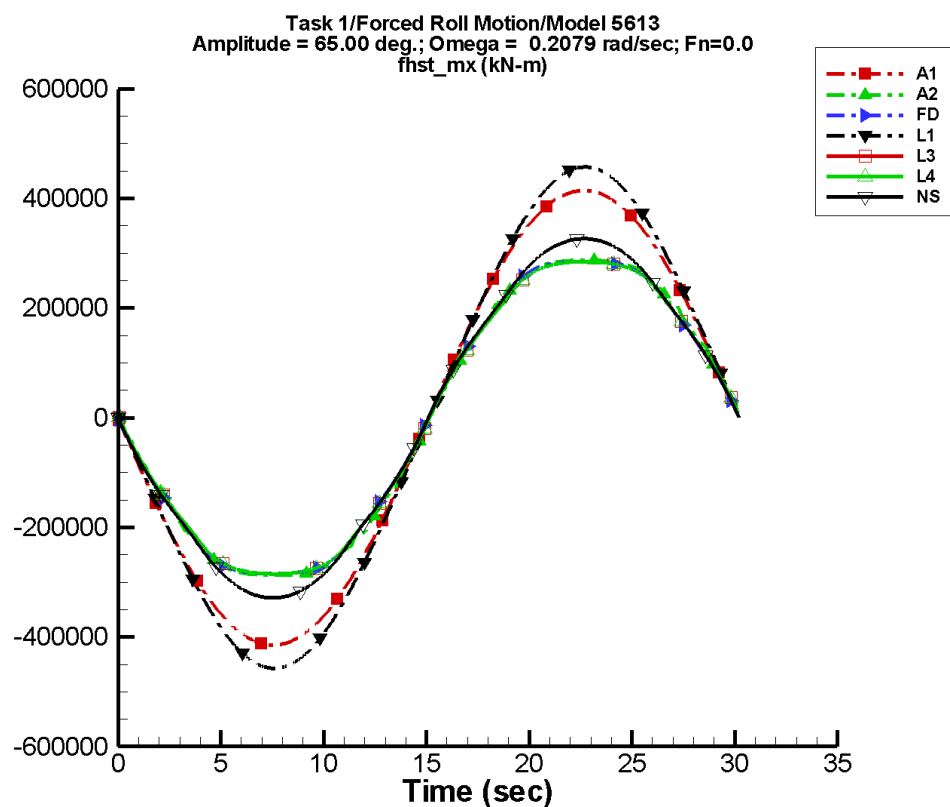
Table C–607. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.216	2.87E+05	180	0.258	159
A2	-278.	2.27E+05	179	1.42E+03	-122
FD	-277.	2.21E+05	-180	1.19E+03	-109
L1	226.	2.98E+05	179	893.	87
L3	-501.	2.18E+05	179	1.90E+03	-94
L4	-501.	2.18E+05	179	1.90E+03	-94
NF	—	—	—	—	—
NS	1.42	2.23E+05	180	2.61	-87

Table C–608. Minimum and maximum of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.87E+05	2.87E+05	-2.87E+05	2.87E+05
A2	-2.18E+05	2.18E+05	-2.18E+05	2.18E+05
FD	-2.17E+05	2.17E+05	-2.17E+05	2.17E+05
L1	-3.01E+05	3.01E+05	-3.01E+05	3.01E+05
L3	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
L4	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
NF	—	—	—	—
NS	-2.19E+05	2.19E+05	-2.19E+05	2.19E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-305. Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

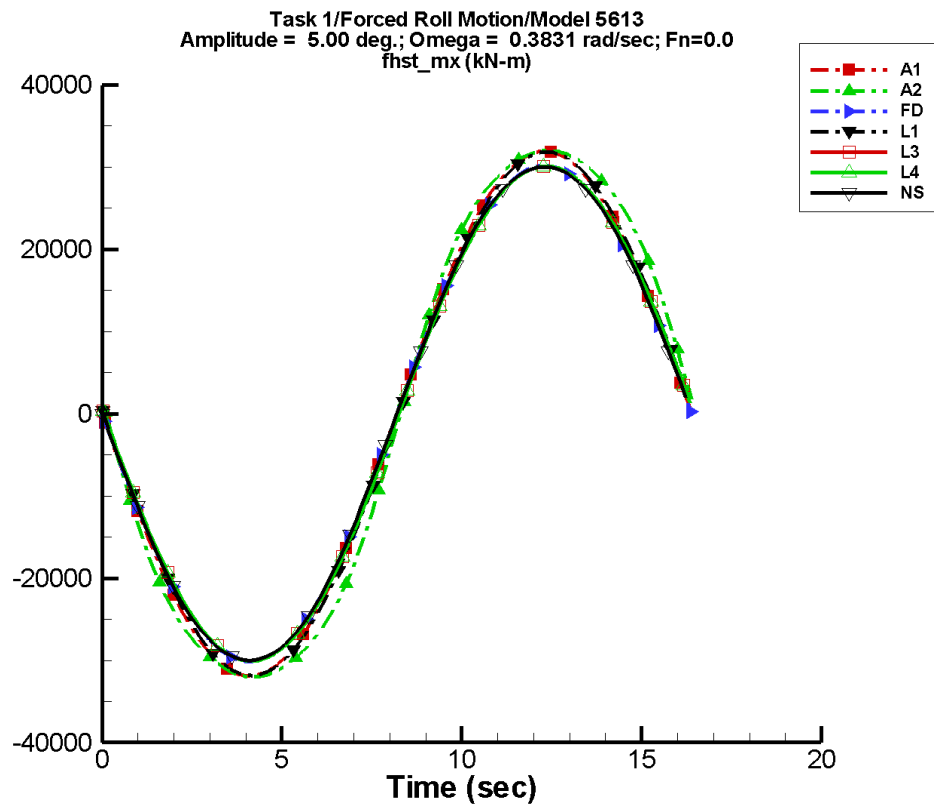
Table C–609. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.325	4.15E+05	180	0.438	167
A2	-576.	3.07E+05	179	2.50E+03	-122
FD	-498.	3.03E+05	-180	2.10E+03	-123
L1	655.	4.47E+05	179	2.58E+03	87
L3	-774.	3.01E+05	179	3.04E+03	-94
L4	-774.	3.01E+05	179	3.04E+03	-94
NF	—	—	—	—	—
NS	-326.	3.26E+05	-180	513.	90

Table C–610. Minimum and maximum of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.15E+05	4.15E+05	-4.15E+05	4.14E+05
A2	-2.87E+05	2.87E+05	-2.88E+05	2.87E+05
FD	-2.84E+05	2.84E+05	-2.85E+05	2.84E+05
L1	-4.57E+05	4.57E+05	-4.57E+05	4.57E+05
L3	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
L4	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
NF	—	—	—	—
NS	-3.29E+05	3.27E+05	-3.28E+05	3.26E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-306. Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

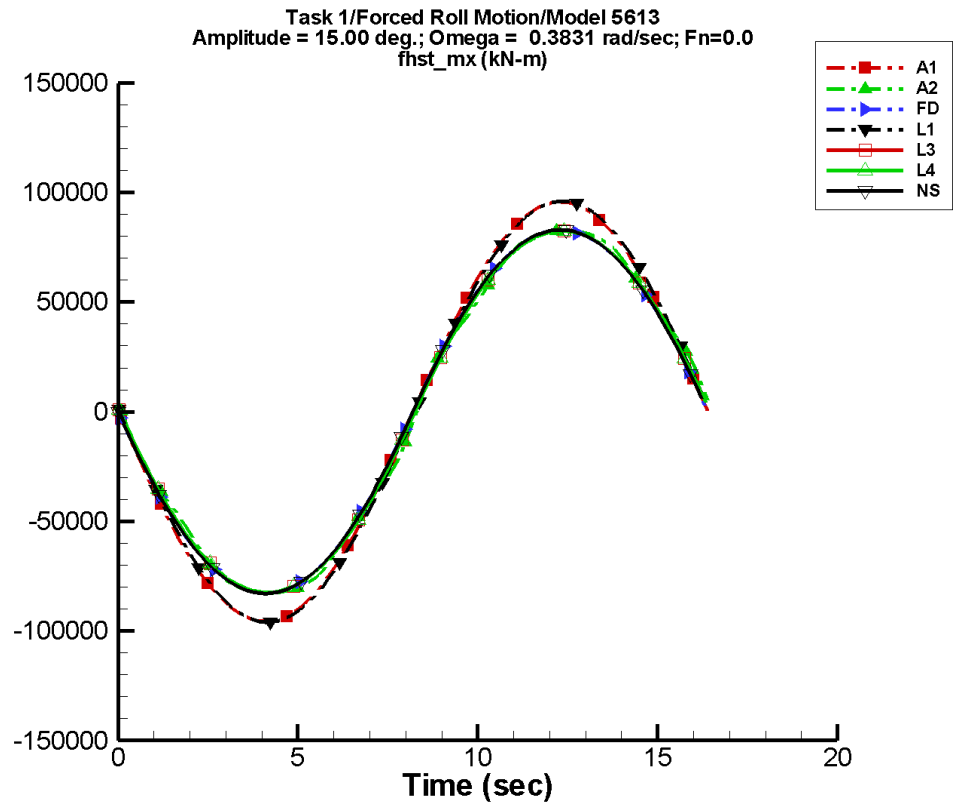
Table C–611. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.92E-03	3.19E+04	-180	2.79E-03	89
A2	-54.6	3.37E+04	178	344.	-123
FD	-7.40	3.04E+04	-180	48.9	-104
L1	0.317	3.18E+04	179	0.722	152
L3	-24.7	3.03E+04	179	43.4	-37
L4	-24.7	3.03E+04	179	43.4	-37
NF	—	—	—	—	—
NS	1.43E-03	3.02E+04	180	4.32E-03	148

Table C–612. Minimum and maximum of of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.19E+04	3.19E+04	-3.20E+04	3.18E+04
A2	-3.20E+04	3.20E+04	-3.21E+04	3.19E+04
FD	-3.02E+04	3.02E+04	-3.00E+04	3.00E+04
L1	-3.18E+04	3.18E+04	-3.18E+04	3.18E+04
L3	-3.01E+04	3.01E+04	-3.00E+04	3.00E+04
L4	-3.01E+04	3.01E+04	-3.00E+04	3.00E+04
NF	—	—	—	—
NS	-3.00E+04	3.00E+04	-2.97E+04	2.97E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-307. Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

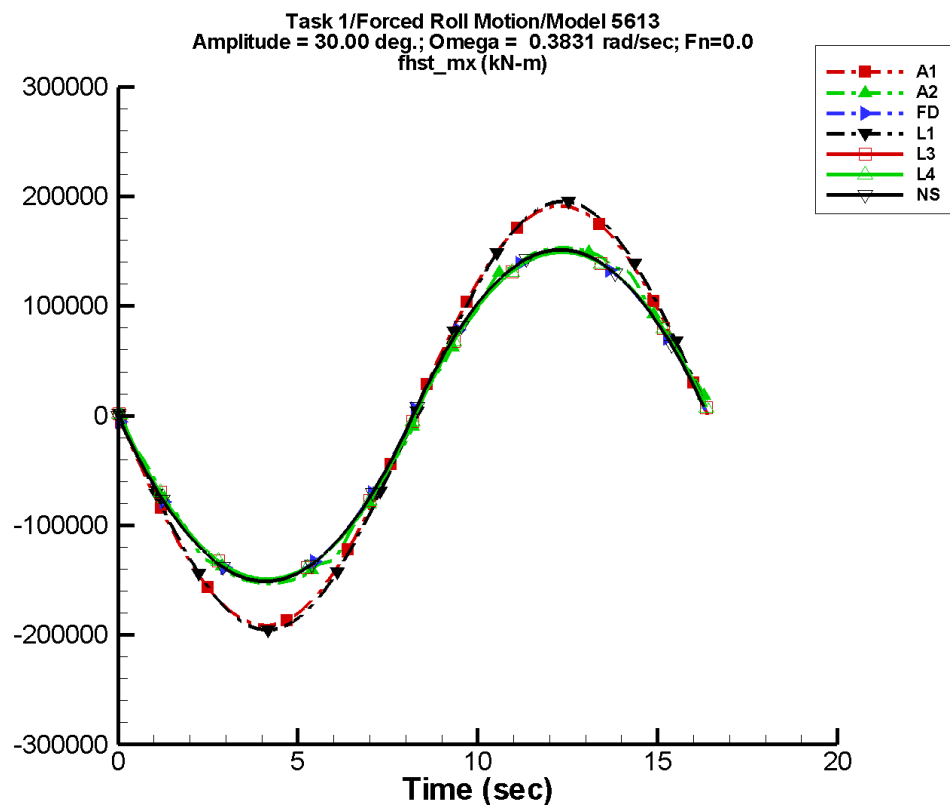
Table C–613. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.96E-04	9.57E+04	-180	3.49E-03	-156
A2	-112.	8.47E+04	178	401.	-107
FD	-60.4	8.43E+04	-180	398.	-105
L1	11.6	9.59E+04	179	20.7	149
L3	-166.	8.39E+04	179	294.	-38
L4	-166.	8.39E+04	179	294.	-38
NF	—	—	—	—	—
NS	-2.51E-03	8.44E+04	180	1.31E-02	140

Table C–614. Minimum and maximum of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.57E+04	9.57E+04	-9.60E+04	9.53E+04
A2	-8.27E+04	8.27E+04	-8.29E+04	8.25E+04
FD	-8.27E+04	8.27E+04	-8.25E+04	8.25E+04
L1	-9.60E+04	9.60E+04	-9.59E+04	9.59E+04
L3	-8.24E+04	8.24E+04	-8.23E+04	8.23E+04
L4	-8.24E+04	8.24E+04	-8.23E+04	8.23E+04
NF	—	—	—	—
NS	-8.29E+04	8.29E+04	-8.22E+04	8.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-308. Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

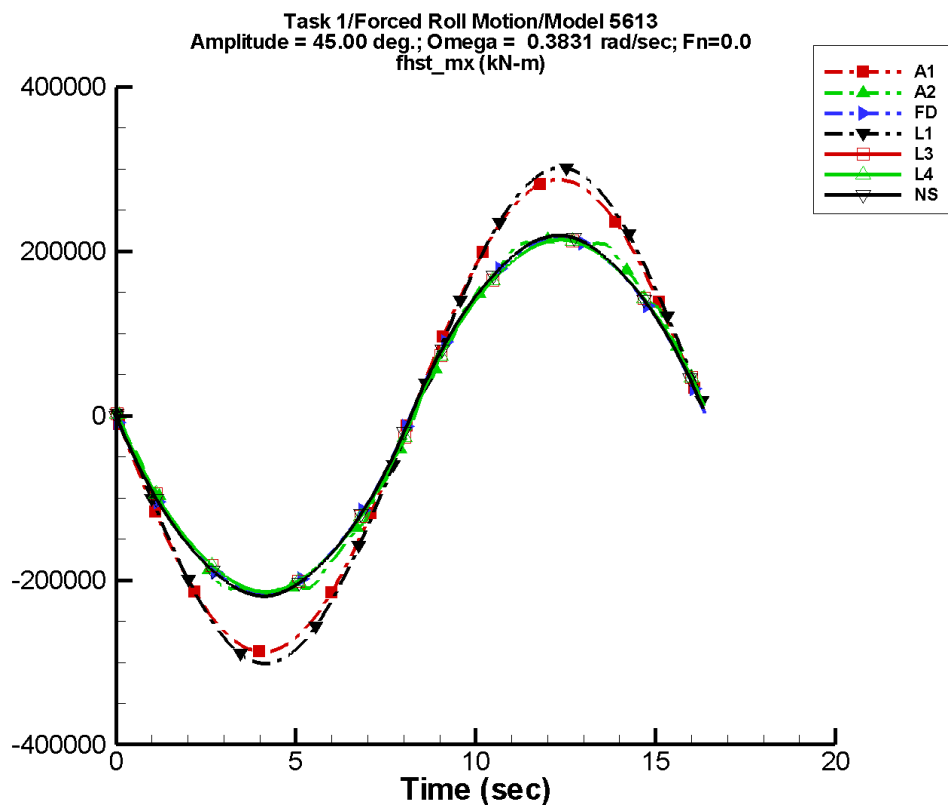
Table C–615. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.06E-03	1.91E+05	-180	3.11E-03	-111
A2	-158.	1.59E+05	178	894.	-123
FD	-176.	1.54E+05	-180	1.13E+03	-105
L1	93.4	1.94E+05	179	164.	148
L3	-475.	1.53E+05	179	841.	-39
L4	-475.	1.53E+05	179	841.	-39
NF	—	—	—	—	—
NS	6.98E-04	1.55E+05	-180	1.62E-02	64

Table C–616. Minimum and maximum of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.91E+05	1.91E+05	-1.92E+05	1.91E+05
A2	-1.53E+05	1.53E+05	-1.53E+05	1.53E+05
FD	-1.50E+05	1.50E+05	-1.50E+05	1.50E+05
L1	-1.95E+05	1.95E+05	-1.95E+05	1.95E+05
L3	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
L4	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
NF	—	—	—	—
NS	-1.51E+05	1.51E+05	-1.51E+05	1.51E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-309. Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

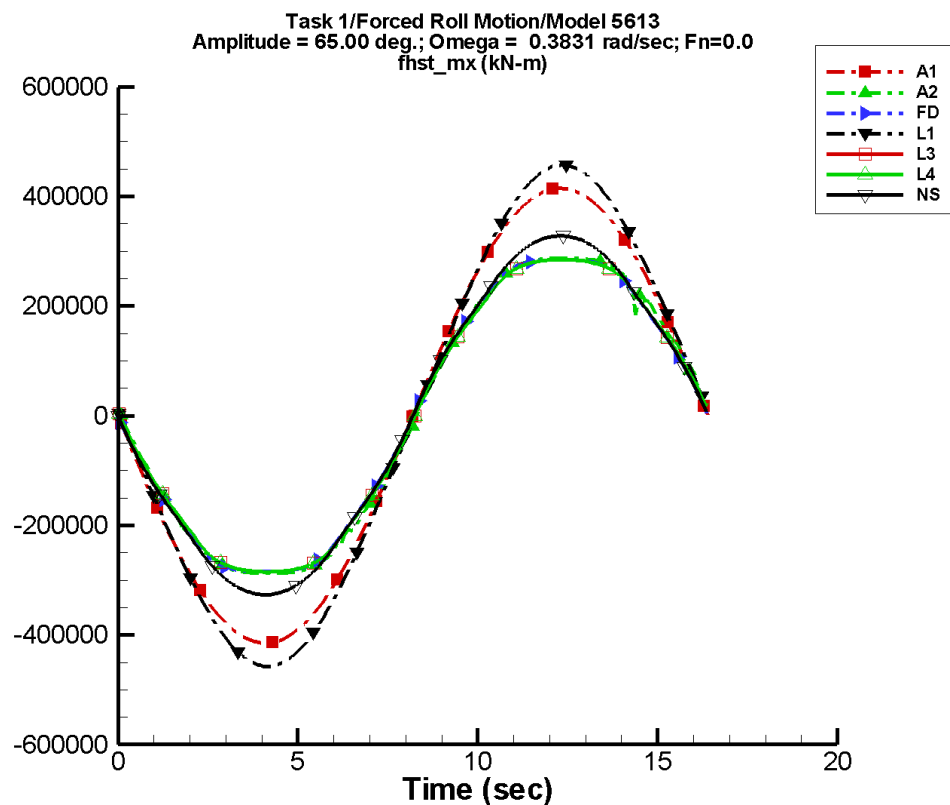
Table C–617. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.55E-02	2.87E+05	-180	5.08E-02	120
A2	-249.	2.27E+05	178	1.47E+03	-123
FD	-227.	2.21E+05	-180	1.45E+03	-106
L1	309.	2.98E+05	179	544.	148
L3	-633.	2.18E+05	179	1.16E+03	-45
L4	-633.	2.18E+05	179	1.16E+03	-45
NF	—	—	—	—	—
NS	1.39	2.23E+05	-180	2.62	-85

Table C–618. Minimum and maximum of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.87E+05	2.87E+05	-2.88E+05	2.86E+05
A2	-2.18E+05	2.18E+05	-2.18E+05	2.17E+05
FD	-2.17E+05	2.17E+05	-2.16E+05	2.16E+05
L1	-3.01E+05	3.01E+05	-3.01E+05	3.01E+05
L3	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
L4	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
NF	—	—	—	—
NS	-2.19E+05	2.19E+05	-2.19E+05	2.19E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-310. Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

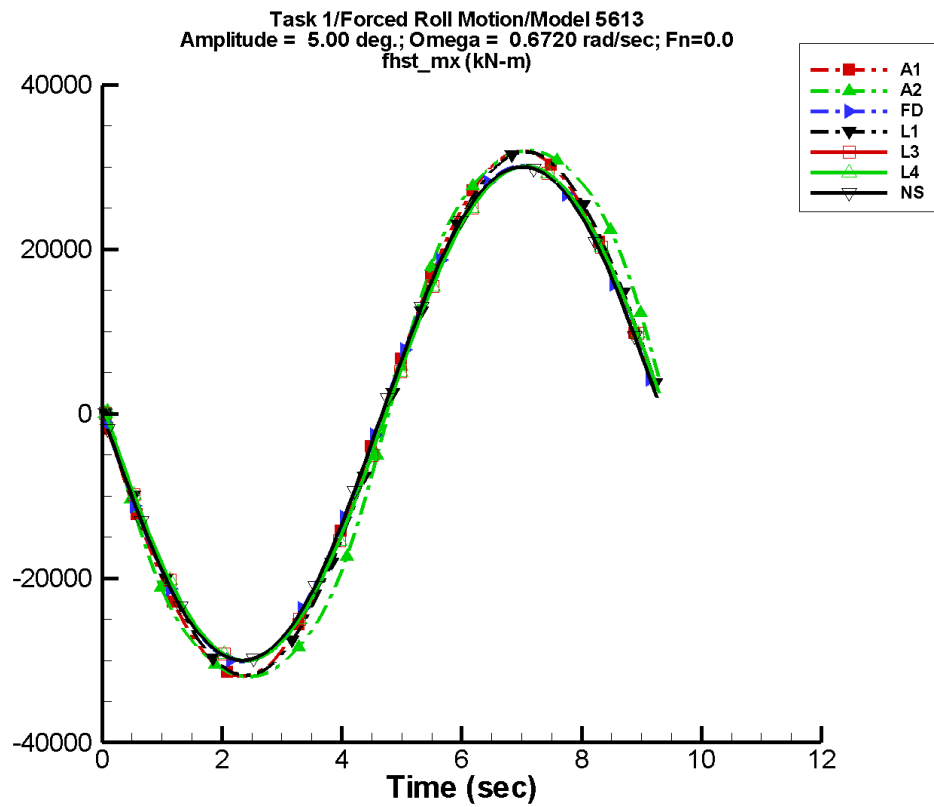
Table C–619. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-8.65E-03	4.15E+05	-180	4.02E-02	100
A2	-1.42E+03	3.06E+05	178	2.52E+03	-34
FD	-536.	3.03E+05	-180	2.89E+03	-100
L1	896.	4.48E+05	178	1.57E+03	148
L3	-1.19E+03	3.00E+05	179	1.96E+03	-32
L4	-1.19E+03	3.00E+05	179	1.96E+03	-32
NF	—	—	—	—	—
NS	216.	3.26E+05	-180	364.	-90

Table C–620. Minimum and maximum of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.15E+05	4.15E+05	-4.16E+05	4.13E+05
A2	-2.87E+05	2.87E+05	-2.87E+05	2.87E+05
FD	-2.84E+05	2.84E+05	-2.84E+05	2.84E+05
L1	-4.57E+05	4.57E+05	-4.57E+05	4.57E+05
L3	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
L4	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
NF	—	—	—	—
NS	-3.27E+05	3.28E+05	-3.26E+05	3.28E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-311. Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

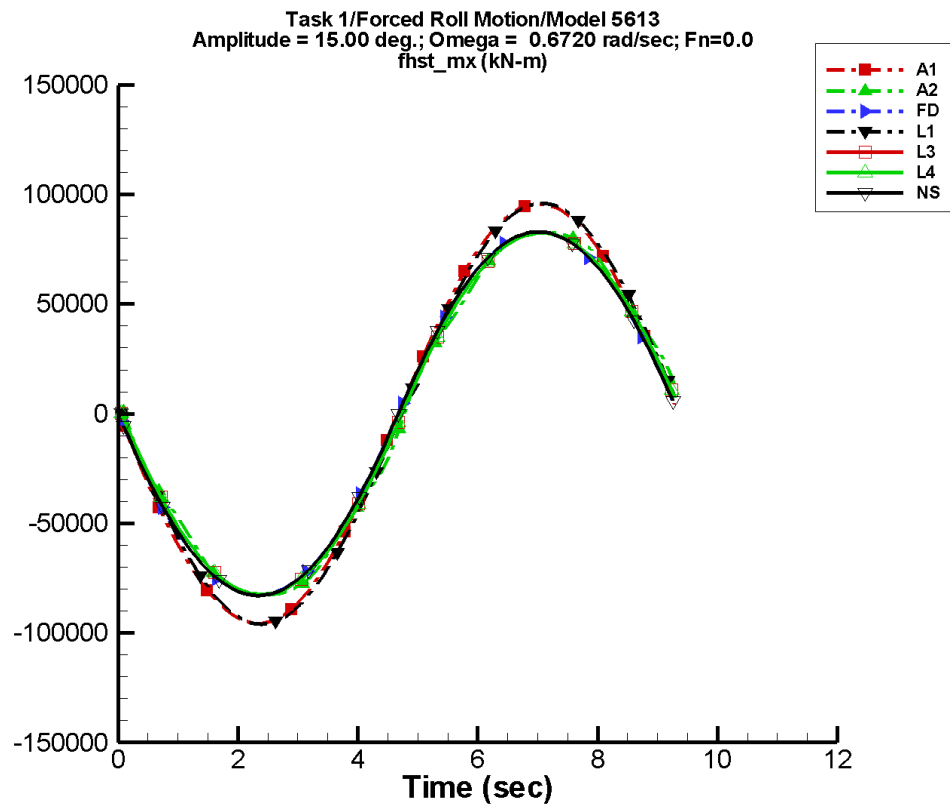
Table C–621. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	2.88E-02	3.19E+04	180	5.51E-02	159
A2	-110.	3.39E+04	177	252.	-144
FD	-18.4	3.03E+04	-180	34.9	-38
L1	-0.471	3.18E+04	178	1.12	55
L3	-2.28	3.03E+04	178	61.4	-122
L4	-2.28	3.03E+04	178	61.4	-122
NF	—	—	—	—	—
NS	6.82E-03	3.02E+04	-180	2.11E-03	-121

Table C–622. Minimum and maximum of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.19E+04	3.19E+04	-3.15E+04	3.15E+04
A2	-3.20E+04	3.20E+04	-3.17E+04	3.17E+04
FD	-3.02E+04	3.02E+04	-2.98E+04	3.00E+04
L1	-3.18E+04	3.18E+04	-3.17E+04	3.17E+04
L3	-3.01E+04	3.01E+04	-3.00E+04	3.00E+04
L4	-3.01E+04	3.01E+04	-3.00E+04	3.00E+04
NF	—	—	—	—
NS	-3.00E+04	3.00E+04	-2.97E+04	2.97E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-312. Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

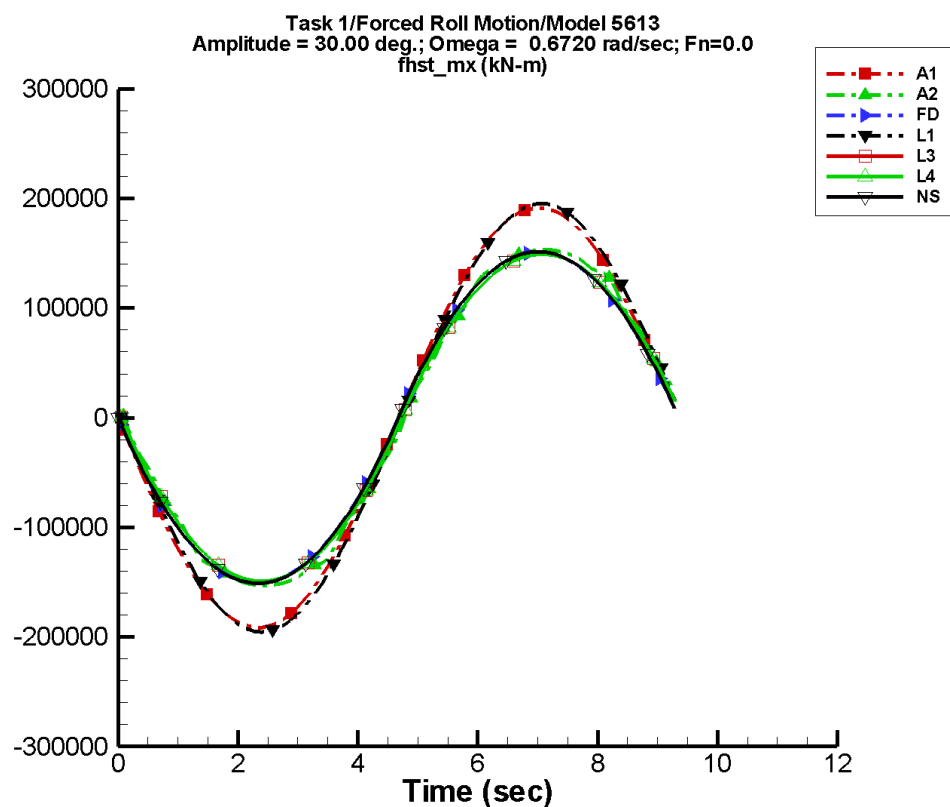
Table C–623. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	9.24E-02	9.57E+04	180	0.163	165
A2	-153.	8.48E+04	176	300.	-116
FD	-150.	8.42E+04	-180	285.	-40
L1	-1.67	9.59E+04	178	30.1	55
L3	-16.7	8.39E+04	178	415.	-122
L4	-16.7	8.39E+04	178	415.	-122
NF	—	—	—	—	—
NS	6.76E-03	8.44E+04	180	5.97E-03	-158

Table C–624. Minimum and maximum of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.56E+04	9.57E+04	-9.46E+04	9.46E+04
A2	-8.26E+04	8.27E+04	-8.21E+04	8.21E+04
FD	-8.27E+04	8.27E+04	-8.19E+04	8.24E+04
L1	-9.60E+04	9.60E+04	-9.56E+04	9.56E+04
L3	-8.24E+04	8.24E+04	-8.21E+04	8.21E+04
L4	-8.24E+04	8.24E+04	-8.21E+04	8.21E+04
NF	—	—	—	—
NS	-8.29E+04	8.29E+04	-8.22E+04	8.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-313. Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

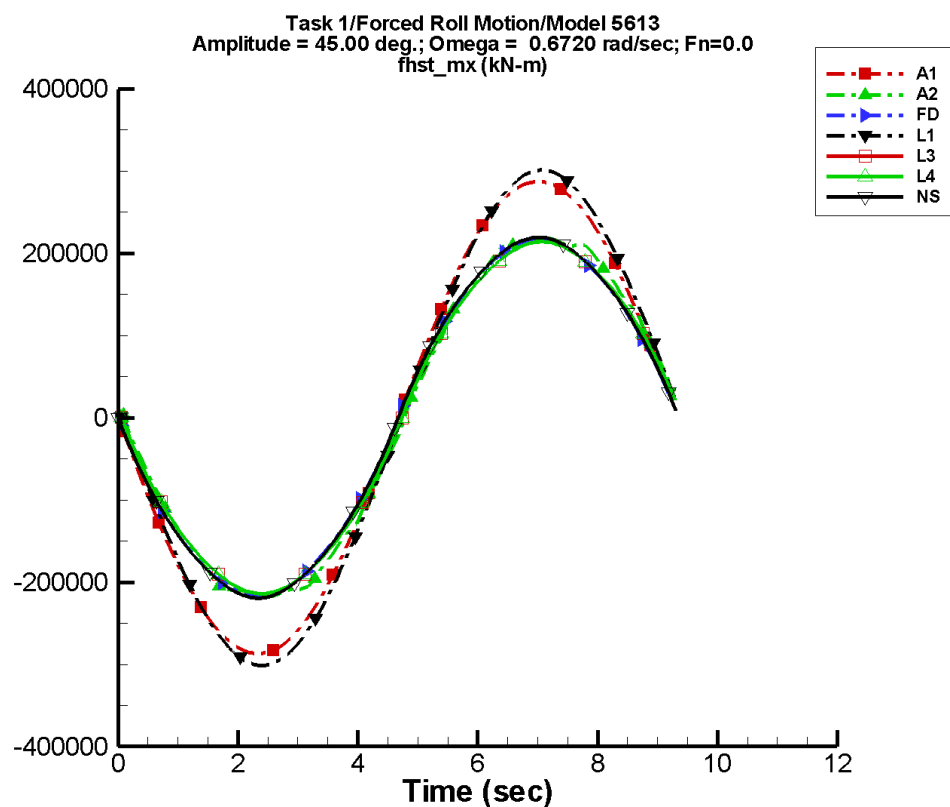
Table C–625. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.194	1.91E+05	180	0.328	164
A2	-321.	1.59E+05	176	615.	-150
FD	-426.	1.54E+05	-180	814.	-42
L1	-4.43	1.94E+05	178	238.	55
L3	-56.6	1.53E+05	178	1.18E+03	-121
L4	-56.6	1.53E+05	178	1.18E+03	-121
NF	—	—	—	—	—
NS	8.06E-04	1.55E+05	-180	1.28E-02	47

Table C–626. Minimum and maximum of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.91E+05	1.91E+05	-1.89E+05	1.89E+05
A2	-1.53E+05	1.53E+05	-1.52E+05	1.52E+05
FD	-1.50E+05	1.50E+05	-1.49E+05	1.50E+05
L1	-1.95E+05	1.95E+05	-1.95E+05	1.95E+05
L3	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
L4	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
NF	—	—	—	—
NS	-1.51E+05	1.51E+05	-1.51E+05	1.51E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-314. Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

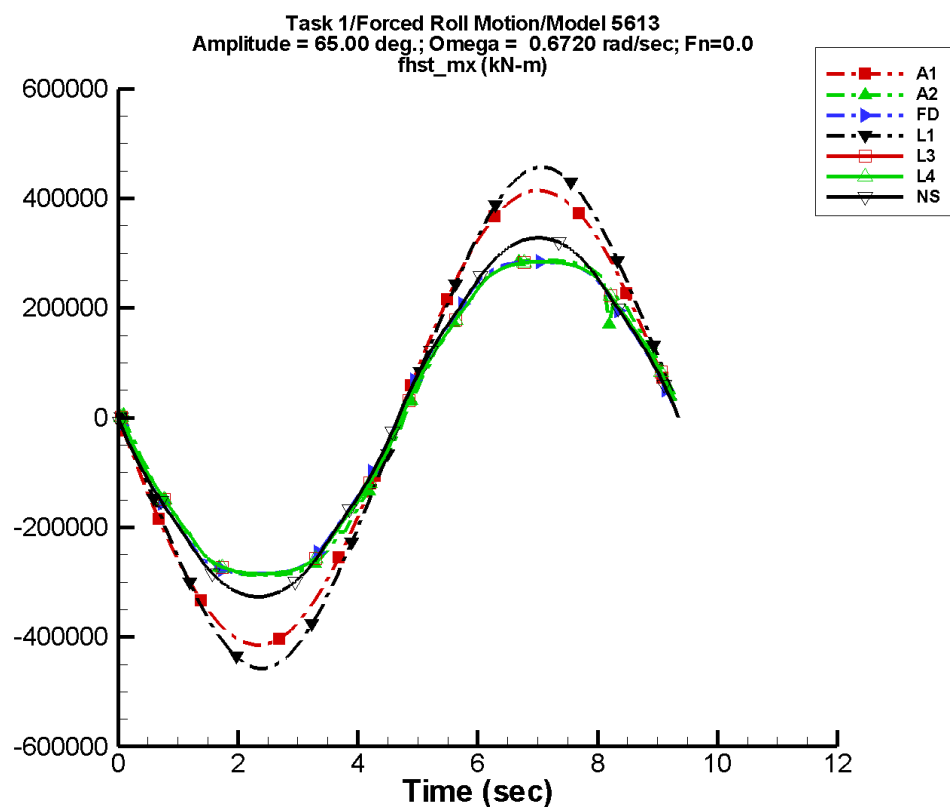
Table C–627. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.299	2.87E+05	180	0.482	162
A2	-545.	2.27E+05	176	1.03E+03	-154
FD	-537.	2.20E+05	-180	1.08E+03	-49
L1	-8.80	2.98E+05	178	786.	55
L3	-140.	2.18E+05	178	1.57E+03	-118
L4	-140.	2.18E+05	178	1.57E+03	-118
NF	—	—	—	—	—
NS	1.39	2.23E+05	180	2.61	-88

Table C–628. Minimum and maximum of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.87E+05	2.87E+05	-2.84E+05	2.84E+05
A2	-2.18E+05	2.18E+05	-2.15E+05	2.15E+05
FD	-2.17E+05	2.17E+05	-2.15E+05	2.16E+05
L1	-3.01E+05	3.01E+05	-3.00E+05	3.00E+05
L3	-2.14E+05	2.14E+05	-2.13E+05	2.13E+05
L4	-2.14E+05	2.14E+05	-2.13E+05	2.13E+05
NF	—	—	—	—
NS	-2.19E+05	2.19E+05	-2.19E+05	2.19E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-315. Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

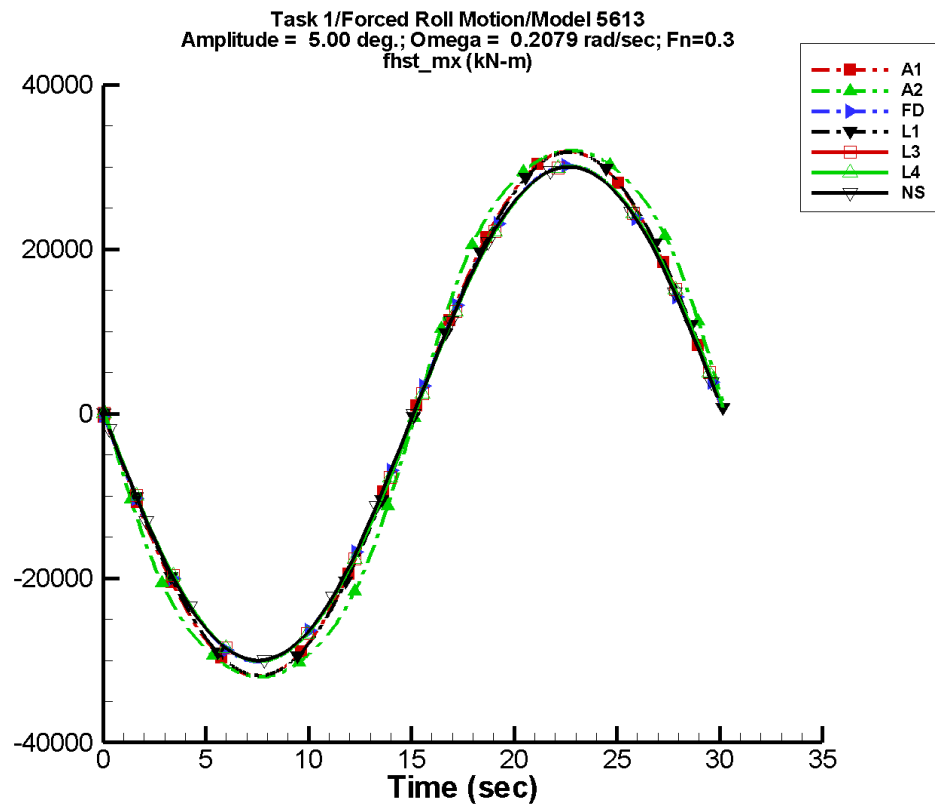
Table C–629. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.420	4.15E+05	180	0.712	161
A2	-1.77E+03	3.08E+05	177	791.	-116
FD	-1.22E+03	3.02E+05	-180	2.10E+03	-31
L1	-16.0	4.47E+05	178	2.27E+03	55
L3	-76.4	3.00E+05	178	2.82E+03	-121
L4	-76.4	3.00E+05	178	2.82E+03	-121
NF	—	—	—	—	—
NS	218.	3.26E+05	180	359.	-90

Table C–630. Minimum and maximum of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.14E+05	4.15E+05	-4.10E+05	4.10E+05
A2	-2.87E+05	2.87E+05	-2.87E+05	2.87E+05
FD	-2.84E+05	2.84E+05	-2.84E+05	2.85E+05
L1	-4.57E+05	4.57E+05	-4.55E+05	4.55E+05
L3	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
L4	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
NF	—	—	—	—
NS	-3.27E+05	3.28E+05	-3.26E+05	3.28E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-316. Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

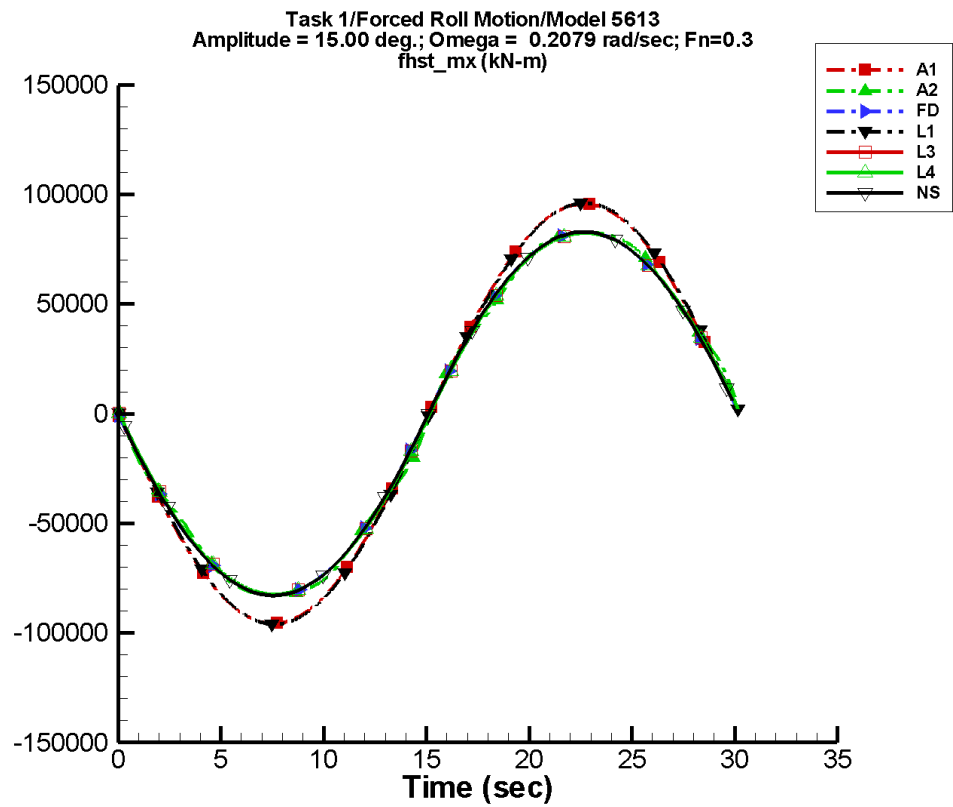
Table C–631. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	2.05E-02	3.19E+04	180	2.91E-02	166
A2	-60.4	3.38E+04	179	333.	-121
FD	-7.78	3.04E+04	-180	36.9	-119
L1	0.315	3.18E+04	179	1.27	87
L3	-18.4	3.03E+04	179	71.3	-93
L4	-18.4	3.03E+04	179	71.3	-93
NF	—	—	—	—	—
NS	-1.94E-03	3.02E+04	-180	4.51E-03	-172

Table C–632. Minimum and maximum of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.19E+04	3.19E+04	-3.19E+04	3.19E+04
A2	-3.20E+04	3.20E+04	-3.20E+04	3.20E+04
FD	-3.02E+04	3.02E+04	-3.01E+04	3.01E+04
L1	-3.18E+04	3.18E+04	-3.18E+04	3.18E+04
L3	-3.01E+04	3.01E+04	-3.01E+04	3.01E+04
L4	-3.01E+04	3.01E+04	-3.01E+04	3.01E+04
NF	—	—	—	—
NS	-3.00E+04	3.00E+04	-2.97E+04	2.97E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-317. Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

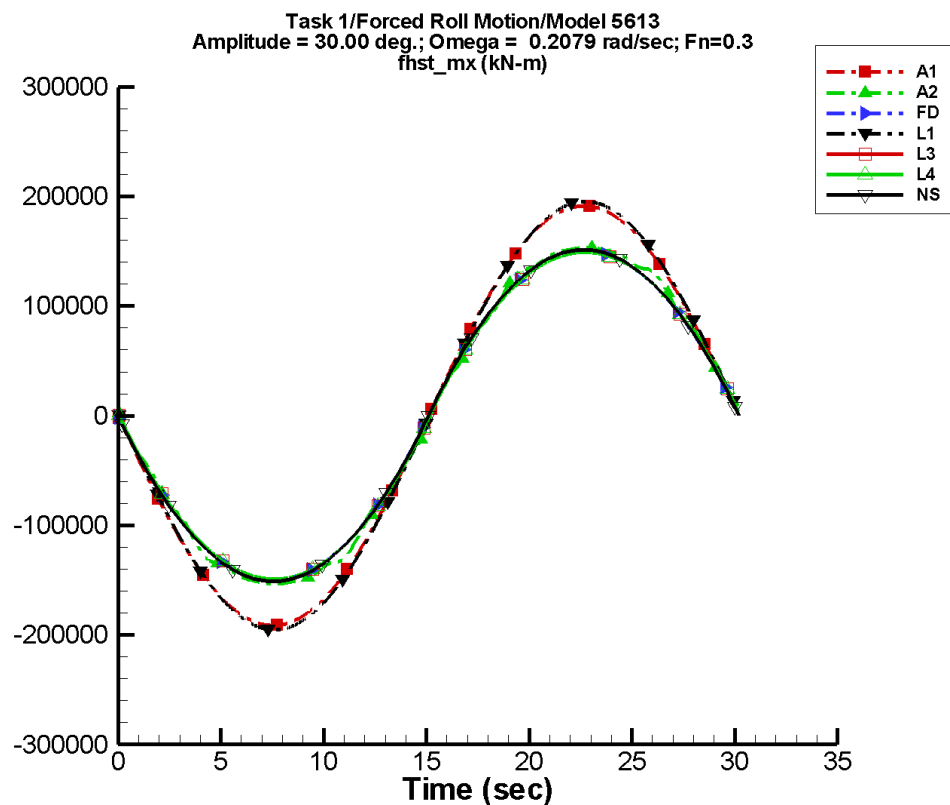
Table C–633. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	6.81E-02	9.57E+04	180	9.62E-02	161
A2	-118.	8.47E+04	179	387.	-105
FD	-65.6	8.43E+04	-180	304.	-117
L1	8.48	9.59E+04	179	34.2	87
L3	-125.	8.40E+04	179	485.	-94
L4	-125.	8.40E+04	179	485.	-94
NF	—	—	—	—	—
NS	-4.71E-03	8.44E+04	-180	5.14E-03	-168

Table C–634. Minimum and maximum of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.57E+04	9.57E+04	-9.57E+04	9.56E+04
A2	-8.27E+04	8.27E+04	-8.27E+04	8.26E+04
FD	-8.27E+04	8.27E+04	-8.27E+04	8.27E+04
L1	-9.60E+04	9.60E+04	-9.60E+04	9.60E+04
L3	-8.24E+04	8.24E+04	-8.24E+04	8.24E+04
L4	-8.24E+04	8.24E+04	-8.24E+04	8.24E+04
NF	—	—	—	—
NS	-8.29E+04	8.29E+04	-8.22E+04	8.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-318. Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

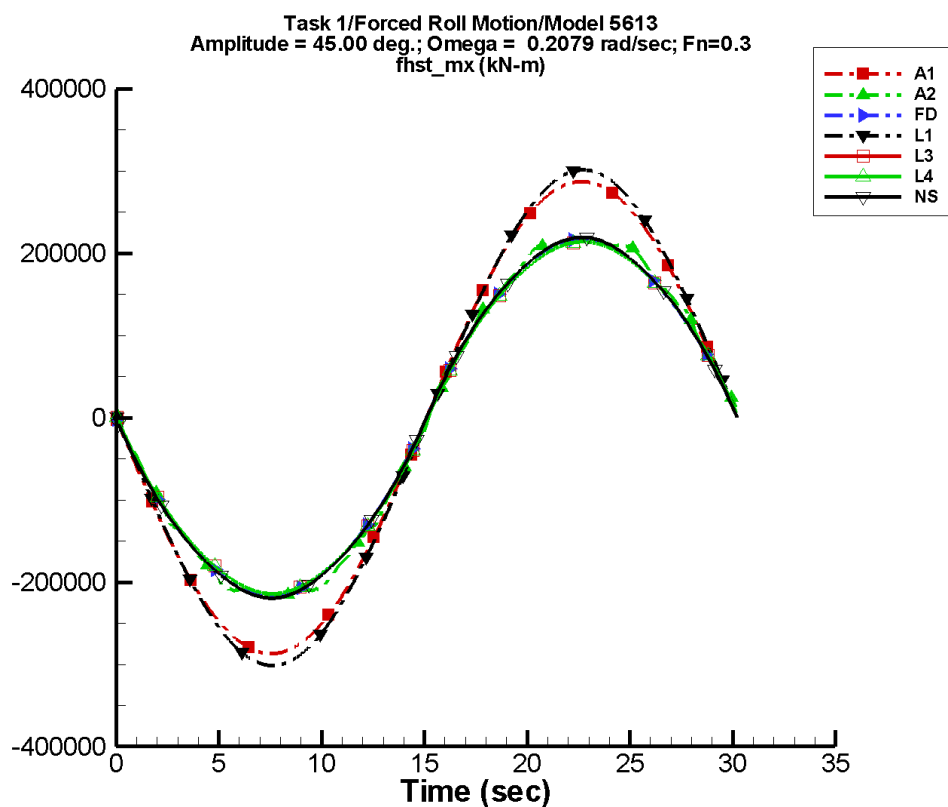
Table C–635. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.125	1.91E+05	180	0.187	163
A2	-177.	1.59E+05	179	855.	-122
FD	-194.	1.55E+05	-180	873.	-115
L1	68.1	1.94E+05	179	270.	87
L3	-358.	1.54E+05	179	1.38E+03	-94
L4	-358.	1.54E+05	179	1.38E+03	-94
NF	—	—	—	—	—
NS	-5.91E-03	1.55E+05	-180	1.53E-02	-127

Table C–636. Minimum and maximum of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.91E+05	1.91E+05	-1.91E+05	1.91E+05
A2	-1.53E+05	1.53E+05	-1.53E+05	1.53E+05
FD	-1.50E+05	1.50E+05	-1.50E+05	1.50E+05
L1	-1.95E+05	1.95E+05	-1.95E+05	1.95E+05
L3	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
L4	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
NF	—	—	—	—
NS	-1.51E+05	1.51E+05	-1.51E+05	1.51E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-319. Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

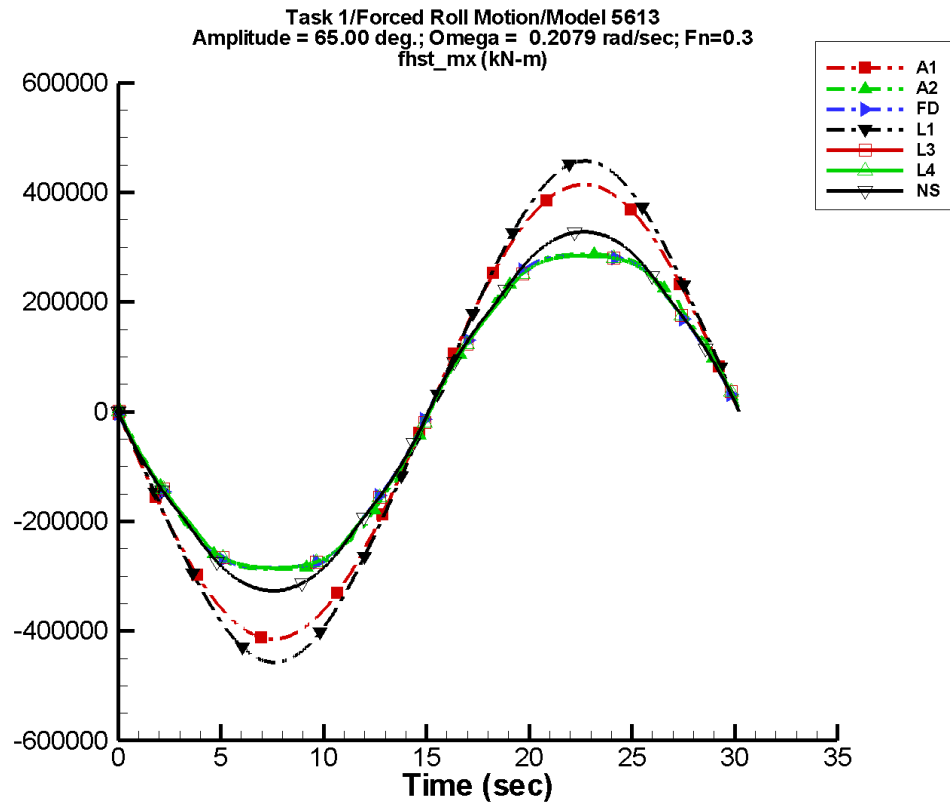
Table C–637. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.216	2.87E+05	180	0.258	159
A2	-278.	2.27E+05	179	1.42E+03	-122
FD	-277.	2.21E+05	-180	1.19E+03	-109
L1	226.	2.98E+05	179	893.	87
L3	-501.	2.18E+05	179	1.90E+03	-94
L4	-501.	2.18E+05	179	1.90E+03	-94
NF	—	—	—	—	—
NS	1.42	2.23E+05	180	2.61	-87

Table C–638. Minimum and maximum of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.87E+05	2.87E+05	-2.87E+05	2.87E+05
A2	-2.18E+05	2.18E+05	-2.18E+05	2.18E+05
FD	-2.17E+05	2.17E+05	-2.17E+05	2.17E+05
L1	-3.01E+05	3.01E+05	-3.01E+05	3.01E+05
L3	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
L4	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
NF	—	—	—	—
NS	-2.19E+05	2.19E+05	-2.19E+05	2.19E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-320. Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

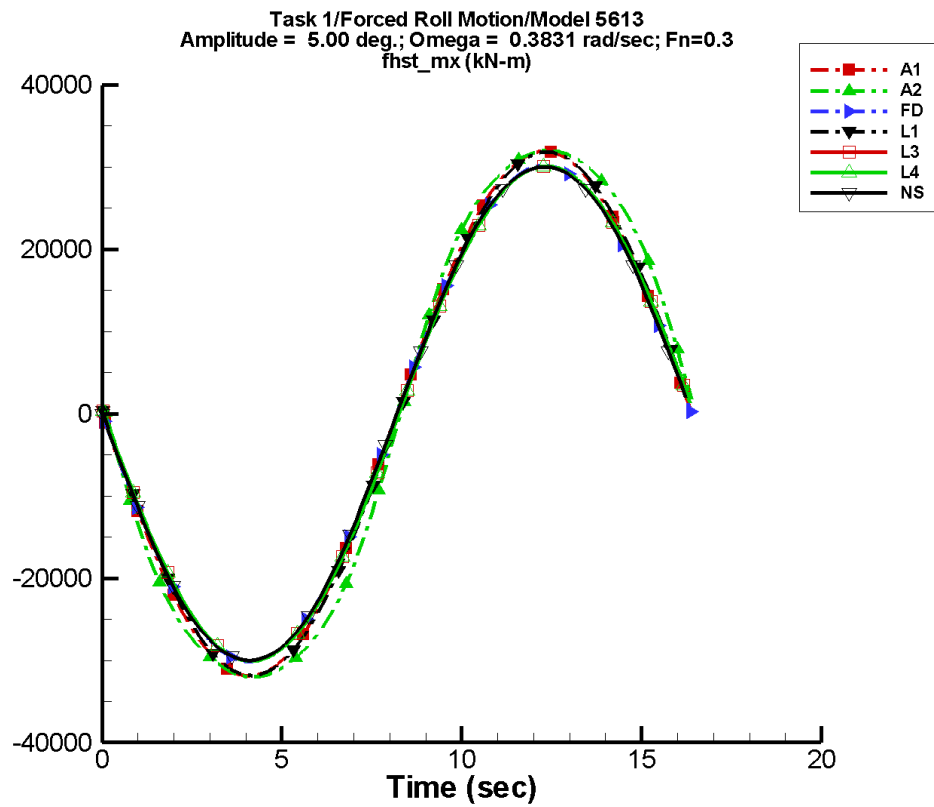
Table C–639. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.325	4.15E+05	180	0.438	167
A2	-576.	3.07E+05	179	2.50E+03	-122
FD	-498.	3.03E+05	-180	2.10E+03	-123
L1	655.	4.47E+05	179	2.58E+03	87
L3	-774.	3.01E+05	179	3.04E+03	-94
L4	-774.	3.01E+05	179	3.04E+03	-94
NF	—	—	—	—	—
NS	219.	3.26E+05	180	361.	-90

Table C–640. Minimum and maximum of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.15E+05	4.15E+05	-4.15E+05	4.14E+05
A2	-2.87E+05	2.87E+05	-2.88E+05	2.87E+05
FD	-2.84E+05	2.84E+05	-2.85E+05	2.84E+05
L1	-4.57E+05	4.57E+05	-4.57E+05	4.57E+05
L3	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
L4	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
NF	—	—	—	—
NS	-3.27E+05	3.28E+05	-3.26E+05	3.28E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-321. Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

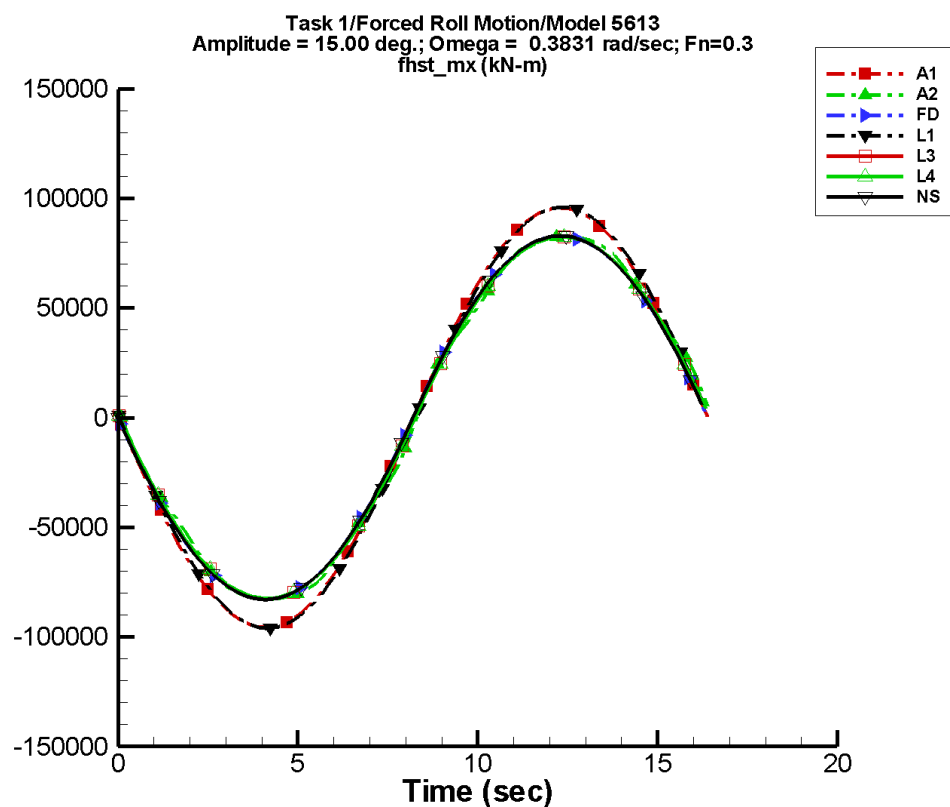
Table C-641. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.92E-03	3.19E+04	-180	2.79E-03	89
A2	-54.6	3.37E+04	178	344.	-123
FD	-7.40	3.04E+04	-180	48.9	-104
L1	0.317	3.18E+04	179	0.722	152
L3	-24.7	3.03E+04	179	43.4	-37
L4	-24.7	3.03E+04	179	43.4	-37
NF	—	—	—	—	—
NS	1.43E-03	3.02E+04	180	4.32E-03	148

Table C-642. Minimum and maximum of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.19E+04	3.19E+04	-3.20E+04	3.18E+04
A2	-3.20E+04	3.20E+04	-3.21E+04	3.19E+04
FD	-3.02E+04	3.02E+04	-3.00E+04	3.00E+04
L1	-3.18E+04	3.18E+04	-3.18E+04	3.18E+04
L3	-3.01E+04	3.01E+04	-3.00E+04	3.00E+04
L4	-3.01E+04	3.01E+04	-3.00E+04	3.00E+04
NF	—	—	—	—
NS	-3.00E+04	3.00E+04	-2.97E+04	2.97E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-322. Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

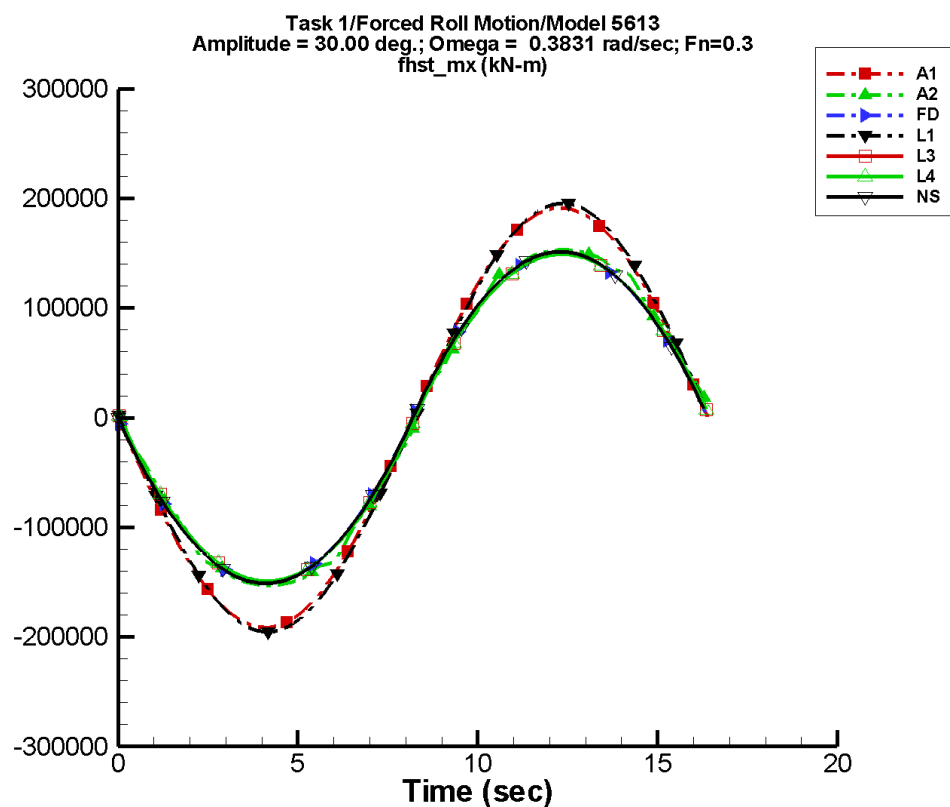
Table C–643. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.96E-04	9.57E+04	-180	3.49E-03	-156
A2	-112.	8.47E+04	178	401.	-107
FD	-60.4	8.43E+04	-180	398.	-105
L1	11.6	9.59E+04	179	20.7	149
L3	-166.	8.39E+04	179	294.	-38
L4	-166.	8.39E+04	179	294.	-38
NF	—	—	—	—	—
NS	-2.51E-03	8.44E+04	180	1.31E-02	140

Table C–644. Minimum and maximum of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.57E+04	9.57E+04	-9.60E+04	9.53E+04
A2	-8.27E+04	8.27E+04	-8.29E+04	8.25E+04
FD	-8.27E+04	8.27E+04	-8.25E+04	8.25E+04
L1	-9.60E+04	9.60E+04	-9.59E+04	9.59E+04
L3	-8.24E+04	8.24E+04	-8.23E+04	8.23E+04
L4	-8.24E+04	8.24E+04	-8.23E+04	8.23E+04
NF	—	—	—	—
NS	-8.29E+04	8.29E+04	-8.22E+04	8.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-323. Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

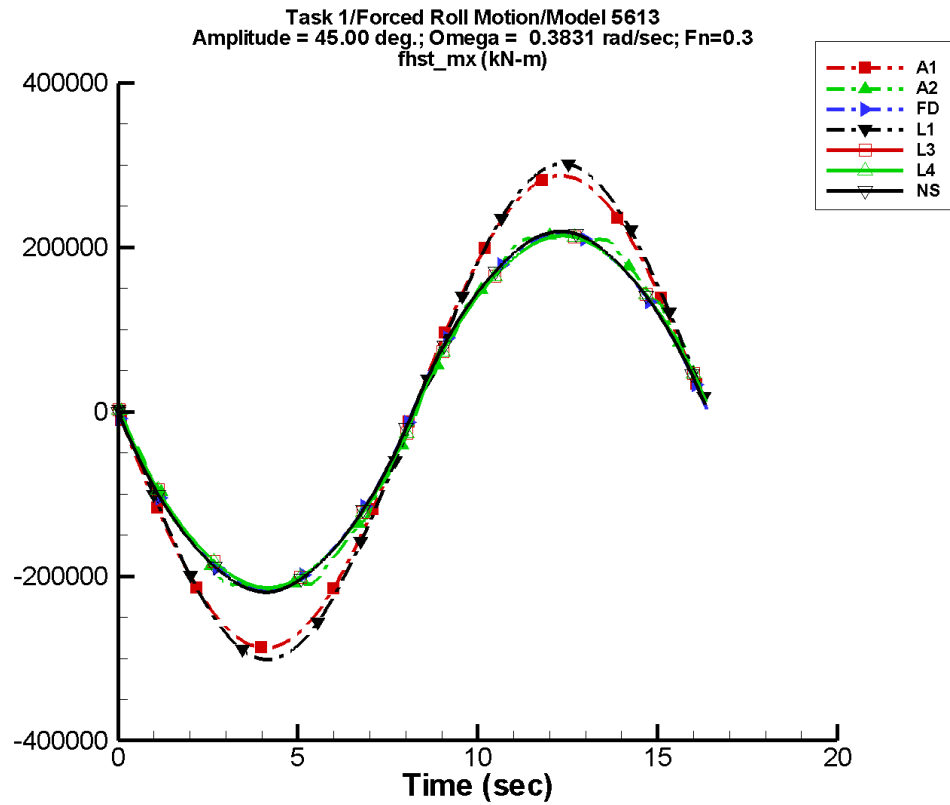
Table C–645. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.06E-03	1.91E+05	-180	3.11E-03	-111
A2	-158.	1.59E+05	178	894.	-123
FD	-176.	1.54E+05	-180	1.13E+03	-105
L1	93.4	1.94E+05	179	164.	148
L3	-475.	1.53E+05	179	841.	-39
L4	-475.	1.53E+05	179	841.	-39
NF	—	—	—	—	—
NS	6.98E-04	1.55E+05	-180	1.62E-02	64

Table C–646. Minimum and maximum of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.91E+05	1.91E+05	-1.92E+05	1.91E+05
A2	-1.53E+05	1.53E+05	-1.53E+05	1.53E+05
FD	-1.50E+05	1.50E+05	-1.50E+05	1.50E+05
L1	-1.95E+05	1.95E+05	-1.95E+05	1.95E+05
L3	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
L4	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
NF	—	—	—	—
NS	-1.51E+05	1.51E+05	-1.51E+05	1.51E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-324. Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

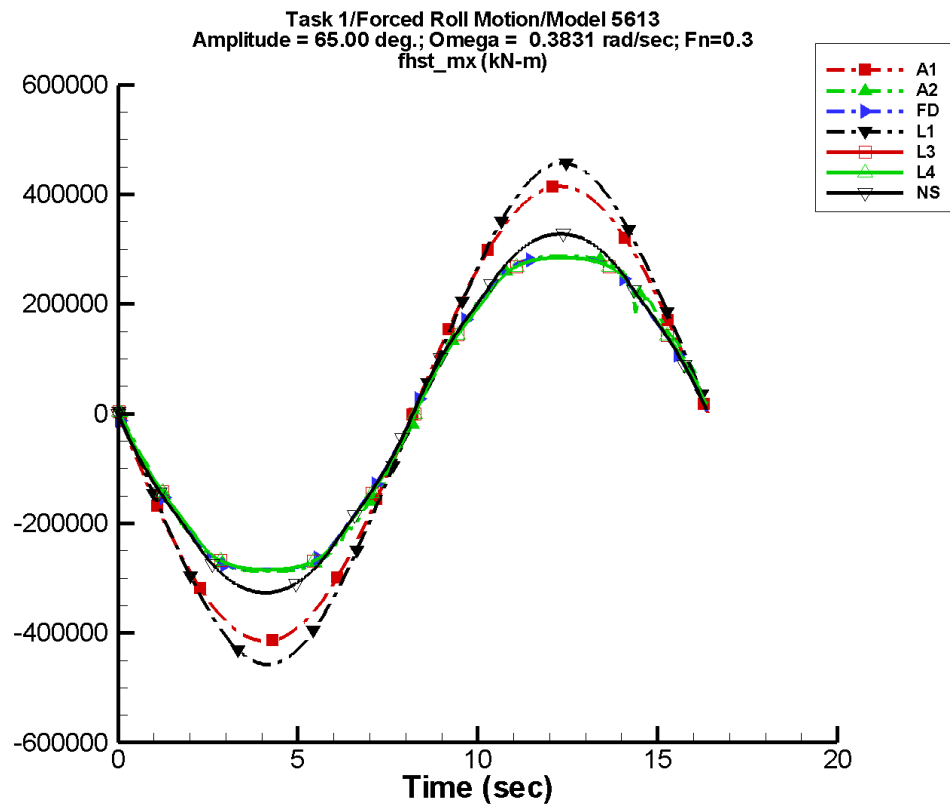
Table C-647. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.55E-02	2.87E+05	-180	5.08E-02	120
A2	-249.	2.27E+05	178	1.47E+03	-123
FD	-227.	2.21E+05	-180	1.45E+03	-106
L1	309.	2.98E+05	179	544.	148
L3	-633.	2.18E+05	179	1.16E+03	-45
L4	-633.	2.18E+05	179	1.16E+03	-45
NF	—	—	—	—	—
NS	1.39	2.23E+05	-180	2.62	-85

Table C-648. Minimum and maximum of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.87E+05	2.87E+05	-2.88E+05	2.86E+05
A2	-2.18E+05	2.18E+05	-2.18E+05	2.17E+05
FD	-2.17E+05	2.17E+05	-2.16E+05	2.16E+05
L1	-3.01E+05	3.01E+05	-3.01E+05	3.01E+05
L3	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
L4	-2.14E+05	2.14E+05	-2.14E+05	2.14E+05
NF	—	—	—	—
NS	-2.19E+05	2.19E+05	-2.19E+05	2.19E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-325. Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

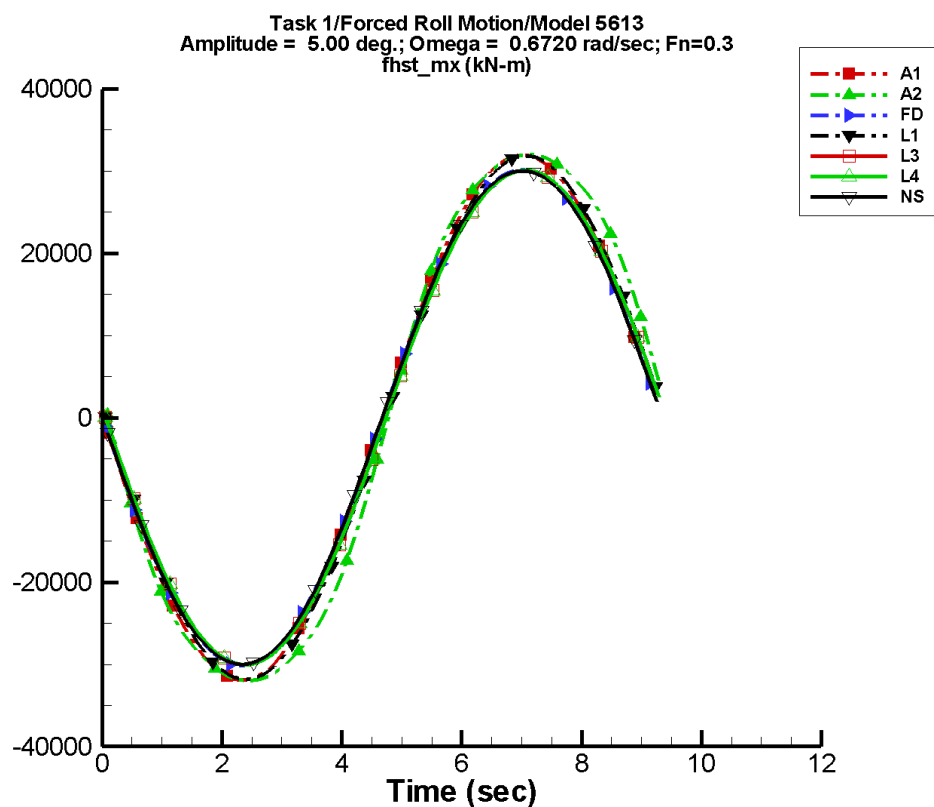
Table C–649. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-8.65E-03	4.15E+05	-180	4.02E-02	100
A2	-1.42E+03	3.06E+05	178	2.52E+03	-34
FD	-536.	3.03E+05	-180	2.89E+03	-100
L1	896.	4.48E+05	178	1.57E+03	148
L3	-1.19E+03	3.00E+05	179	1.96E+03	-32
L4	-1.19E+03	3.00E+05	179	1.96E+03	-32
NF	—	—	—	—	—
NS	216.	3.26E+05	-180	364.	-90

Table C–650. Minimum and maximum of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.15E+05	4.15E+05	-4.16E+05	4.13E+05
A2	-2.87E+05	2.87E+05	-2.87E+05	2.87E+05
FD	-2.84E+05	2.84E+05	-2.84E+05	2.84E+05
L1	-4.57E+05	4.57E+05	-4.57E+05	4.57E+05
L3	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
L4	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
NF	—	—	—	—
NS	-3.27E+05	3.28E+05	-3.26E+05	3.28E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-326. Time history of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

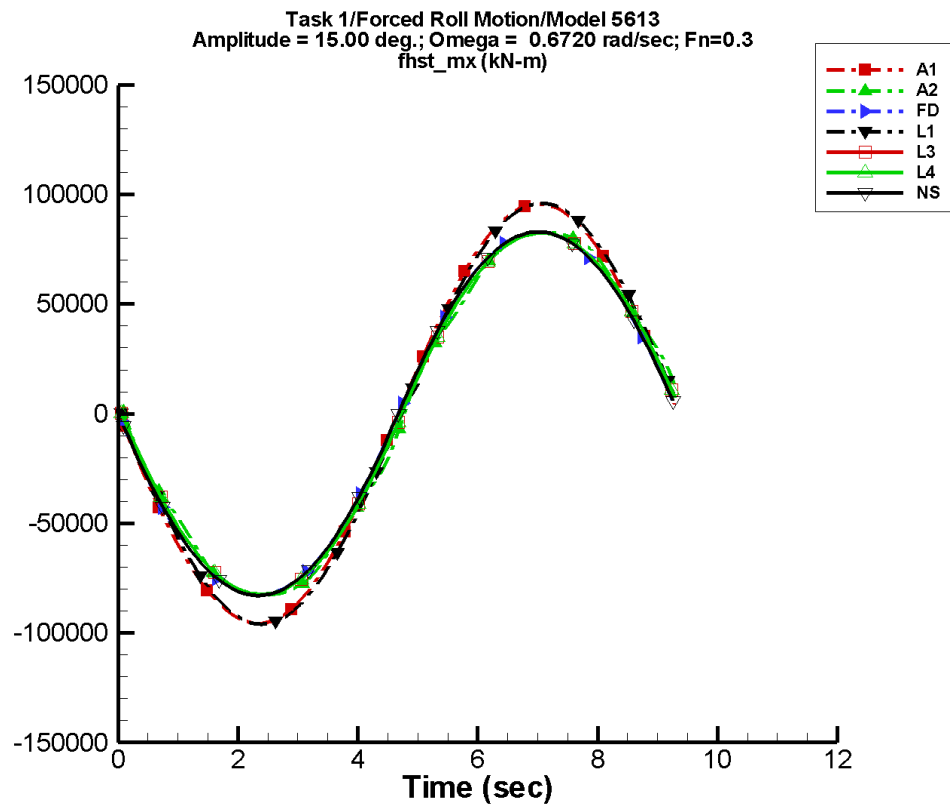
Table C–651. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	2.88E-02	3.19E+04	180	5.51E-02	159
A2	-110.	3.39E+04	177	252.	-144
FD	-18.4	3.03E+04	-180	34.9	-38
L1	-0.471	3.18E+04	178	1.12	55
L3	-2.28	3.03E+04	178	61.4	-122
L4	-2.28	3.03E+04	178	61.4	-122
NF	—	—	—	—	—
NS	6.82E-03	3.02E+04	-180	2.11E-03	-121

Table C–652. Minimum and maximum of M_x^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.19E+04	3.19E+04	-3.15E+04	3.15E+04
A2	-3.20E+04	3.20E+04	-3.17E+04	3.17E+04
FD	-3.02E+04	3.02E+04	-2.98E+04	3.00E+04
L1	-3.18E+04	3.18E+04	-3.17E+04	3.17E+04
L3	-3.01E+04	3.01E+04	-3.00E+04	3.00E+04
L4	-3.01E+04	3.01E+04	-3.00E+04	3.00E+04
NF	—	—	—	—
NS	-3.00E+04	3.00E+04	-2.97E+04	2.97E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-327. Time history of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

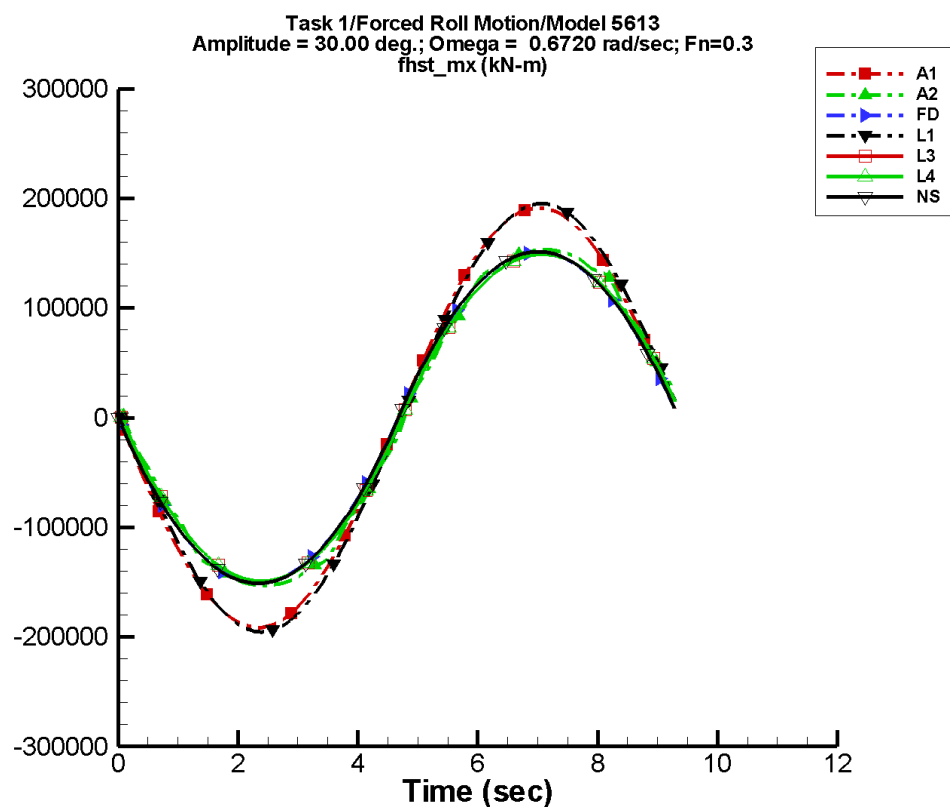
Table C–653. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	9.24E-02	9.57E+04	180	0.163	165
A2	-153.	8.48E+04	176	300.	-116
FD	-150.	8.42E+04	-180	285.	-40
L1	-1.67	9.59E+04	178	30.1	55
L3	-16.7	8.39E+04	178	415.	-122
L4	-16.7	8.39E+04	178	415.	-122
NF	—	—	—	—	—
NS	6.76E-03	8.44E+04	180	5.97E-03	-158

Table C–654. Minimum and maximum of M_x^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.56E+04	9.57E+04	-9.46E+04	9.46E+04
A2	-8.26E+04	8.27E+04	-8.21E+04	8.21E+04
FD	-8.27E+04	8.27E+04	-8.19E+04	8.24E+04
L1	-9.60E+04	9.60E+04	-9.56E+04	9.56E+04
L3	-8.24E+04	8.24E+04	-8.21E+04	8.21E+04
L4	-8.24E+04	8.24E+04	-8.21E+04	8.21E+04
NF	—	—	—	—
NS	-8.29E+04	8.29E+04	-8.22E+04	8.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-328. Time history of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

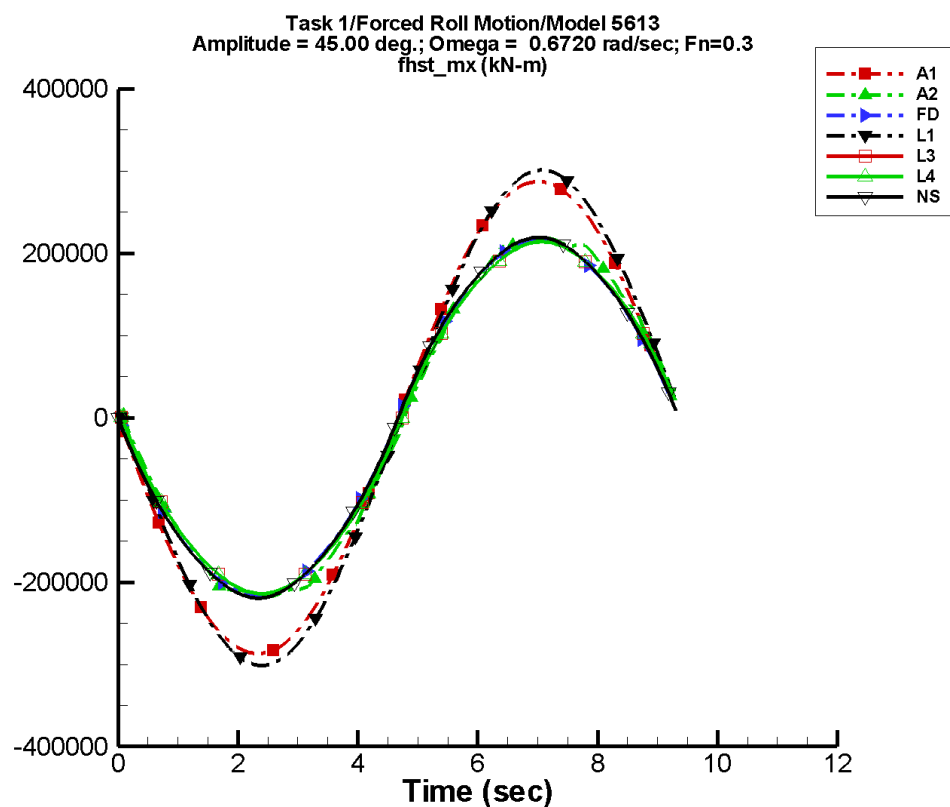
Table C–655. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.194	1.91E+05	180	0.328	164
A2	-321.	1.59E+05	176	615.	-150
FD	-426.	1.54E+05	-180	814.	-42
L1	-4.43	1.94E+05	178	238.	55
L3	-56.6	1.53E+05	178	1.18E+03	-121
L4	-56.6	1.53E+05	178	1.18E+03	-121
NF	—	—	—	—	—
NS	8.06E-04	1.55E+05	-180	1.28E-02	47

Table C–656. Minimum and maximum of M_x^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.91E+05	1.91E+05	-1.89E+05	1.89E+05
A2	-1.53E+05	1.53E+05	-1.52E+05	1.52E+05
FD	-1.50E+05	1.50E+05	-1.49E+05	1.50E+05
L1	-1.95E+05	1.95E+05	-1.95E+05	1.95E+05
L3	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
L4	-1.49E+05	1.49E+05	-1.49E+05	1.49E+05
NF	—	—	—	—
NS	-1.51E+05	1.51E+05	-1.51E+05	1.51E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-329. Time history of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

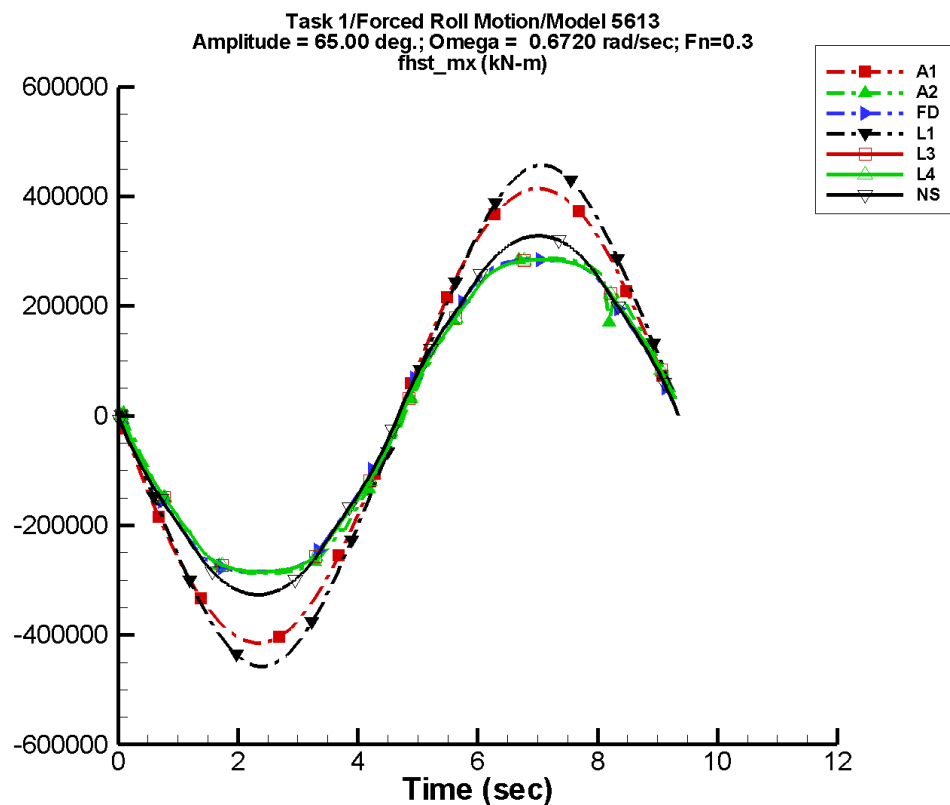
Table C–657. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.299	2.87E+05	180	0.482	162
A2	-545.	2.27E+05	176	1.03E+03	-154
FD	-537.	2.20E+05	-180	1.08E+03	-49
L1	-8.80	2.98E+05	178	786.	55
L3	-140.	2.18E+05	178	1.57E+03	-118
L4	-140.	2.18E+05	178	1.57E+03	-118
NF	—	—	—	—	—
NS	1.39	2.23E+05	180	2.61	-88

Table C–658. Minimum and maximum of M_x^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.87E+05	2.87E+05	-2.84E+05	2.84E+05
A2	-2.18E+05	2.18E+05	-2.15E+05	2.15E+05
FD	-2.17E+05	2.17E+05	-2.15E+05	2.16E+05
L1	-3.01E+05	3.01E+05	-3.00E+05	3.00E+05
L3	-2.14E+05	2.14E+05	-2.13E+05	2.13E+05
L4	-2.14E+05	2.14E+05	-2.13E+05	2.13E+05
NF	—	—	—	—
NS	-2.19E+05	2.19E+05	-2.19E+05	2.19E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-330. Time history of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

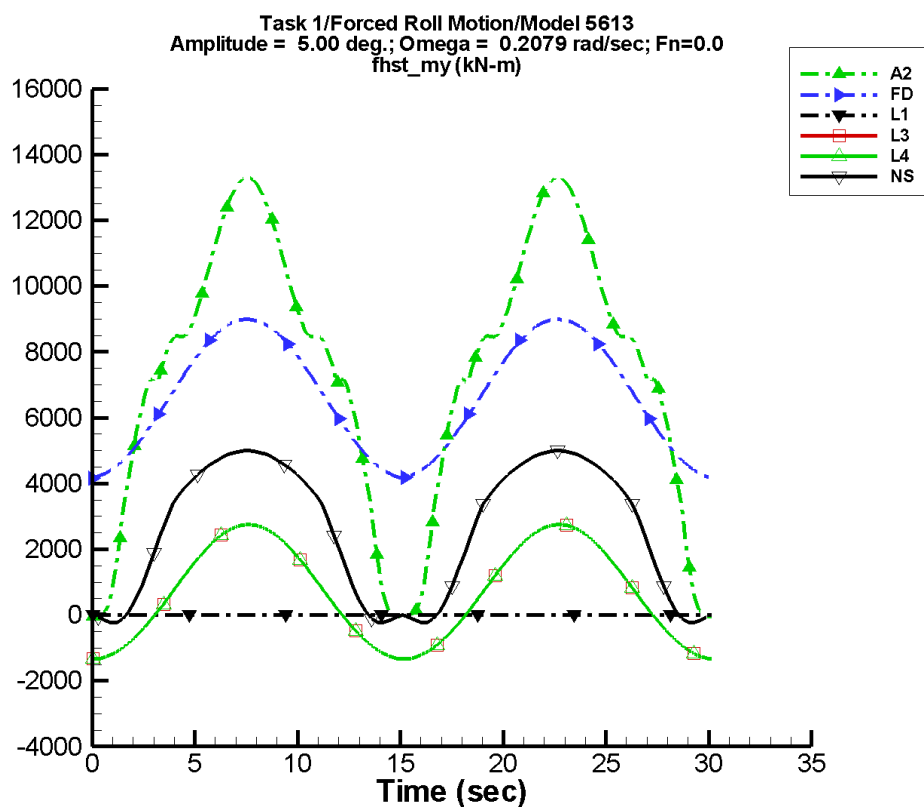
Table C–659. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	0.420	4.15E+05	180	0.712	161
A2	-1.77E+03	3.08E+05	177	791.	-116
FD	-1.22E+03	3.02E+05	-180	2.10E+03	-31
L1	-16.0	4.47E+05	178	2.27E+03	55
L3	-76.4	3.00E+05	178	2.82E+03	-121
L4	-76.4	3.00E+05	178	2.82E+03	-121
NF	—	—	—	—	—
NS	218.	3.26E+05	180	359.	-90

Table C–660. Minimum and maximum of M_x^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.14E+05	4.15E+05	-4.10E+05	4.10E+05
A2	-2.87E+05	2.87E+05	-2.87E+05	2.87E+05
FD	-2.84E+05	2.84E+05	-2.84E+05	2.85E+05
L1	-4.57E+05	4.57E+05	-4.55E+05	4.55E+05
L3	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
L4	-2.85E+05	2.85E+05	-2.85E+05	2.85E+05
NF	—	—	—	—
NS	-3.27E+05	3.28E+05	-3.26E+05	3.28E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-331. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

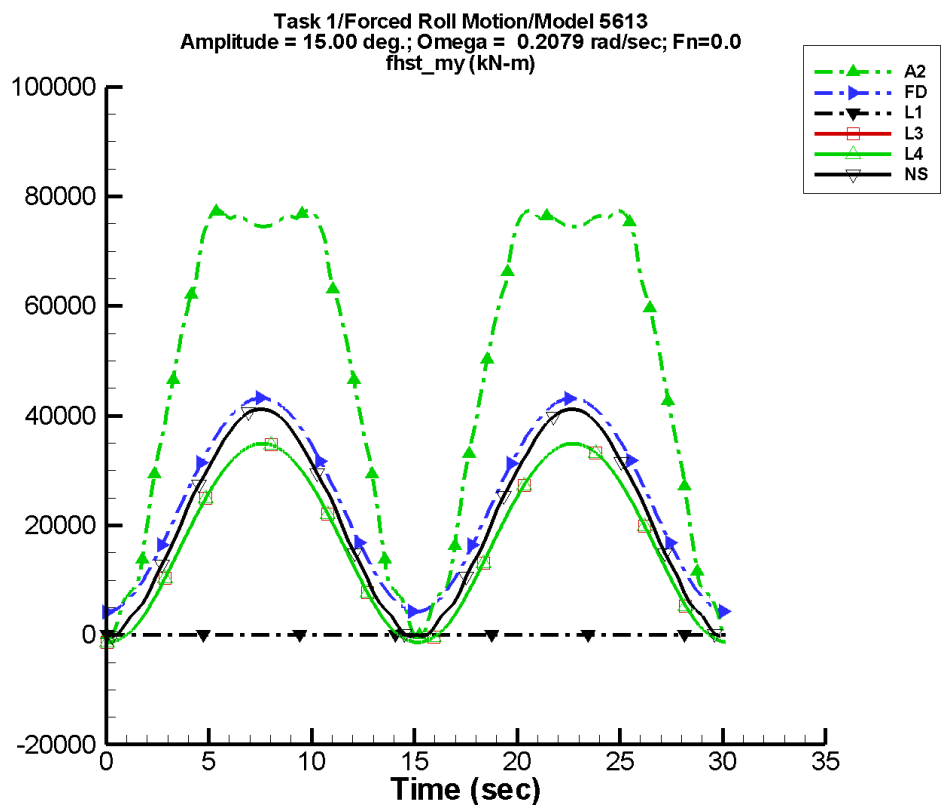
Table C–661. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.33E+03	13.5	-28	5.58E+03	-89
FD	6.62E+03	0.470	-17	2.38E+03	-90
L1	-1.12E-07	1.93E-03	179	4.40E-07	-93
L3	674.	2.25	120	2.04E+03	-91
L4	674.	2.25	120	2.04E+03	-91
NF	—	—	—	—	—
NS	2.57E+03	9.19E-03	26	2.81E+03	-90

Table C–662. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.2	1.33E+04	-66.2	1.32E+04
FD	4.16E+03	8.99E+03	4.17E+03	8.98E+03
L1	-1.93E-03	1.93E-03	-1.92E-03	1.92E-03
L3	-1.34E+03	2.75E+03	-1.34E+03	2.75E+03
L4	-1.34E+03	2.75E+03	-1.34E+03	2.75E+03
NF	—	—	—	—
NS	-230.	5.00E+03	-179.	4.93E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-332. Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

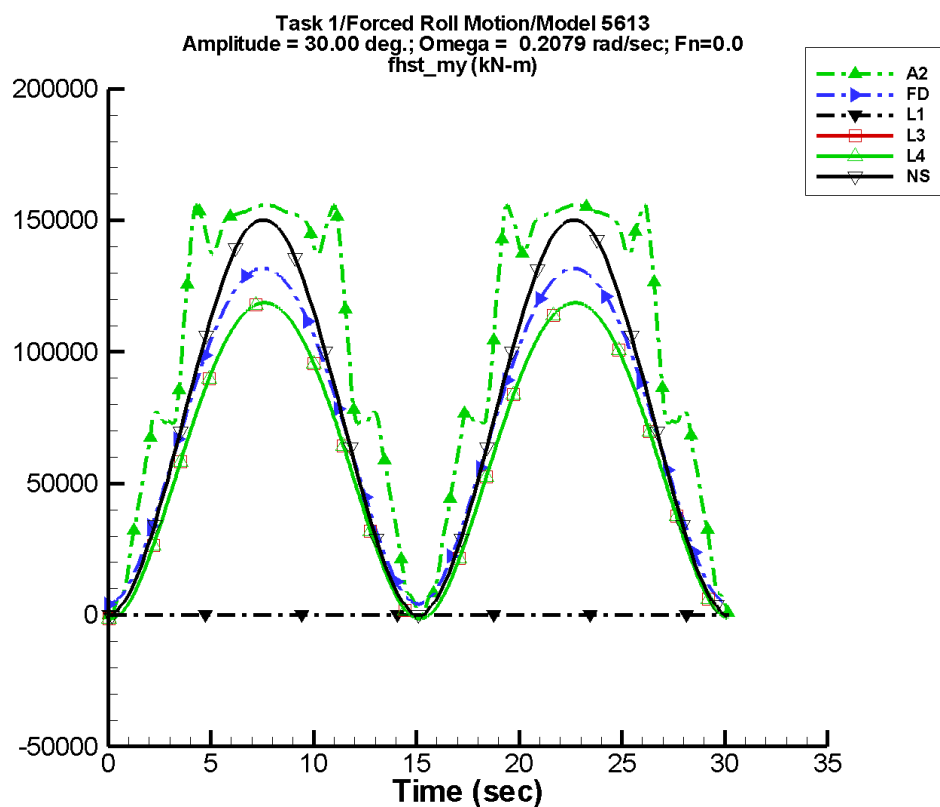
Table C–663. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.84E+04	200.	2	3.88E+04	-91
FD	2.43E+04	12.5	5	1.95E+04	-90
L1	-3.00E-06	5.65E-03	179	1.18E-05	-93
L3	1.72E+04	30.1	-59	1.82E+04	-91
L4	1.72E+04	30.1	-59	1.82E+04	-91
NF	—	—	—	—	—
NS	2.09E+04	9.60E-03	-86	2.04E+04	-90

Table C–664. Minimum and maximum of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.0	7.75E+04	-133.	7.71E+04
FD	4.16E+03	4.32E+04	4.15E+03	4.31E+04
L1	-5.60E-03	5.60E-03	-5.60E-03	5.60E-03
L3	-1.34E+03	3.49E+04	-1.32E+03	3.49E+04
L4	-1.34E+03	3.49E+04	-1.32E+03	3.49E+04
NF	—	—	—	—
NS	-231.	4.12E+04	398.	4.04E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-333. Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

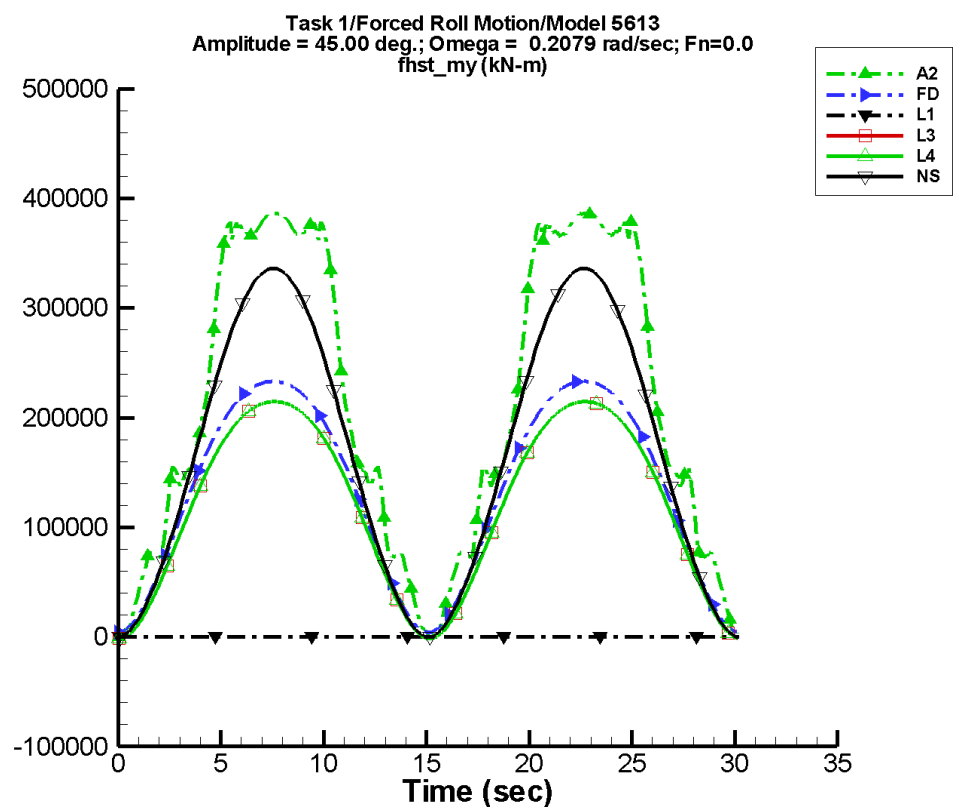
Table C–665. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.01E+05	368.	-13	7.21E+04	-91
FD	7.20E+04	87.2	3	6.32E+04	-90
L1	-2.35E-05	1.04E-02	179	9.25E-05	-93
L3	6.24E+04	283.	-61	5.93E+04	-91
L4	6.24E+04	283.	-61	5.93E+04	-91
NF	—	—	—	—	—
NS	7.66E+04	2.53E-02	22	7.44E+04	-90

Table C–666. Minimum and maximum of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.0	1.56E+05	428.	1.56E+05
FD	4.17E+03	1.32E+05	4.12E+03	1.32E+05
L1	-1.00E-02	1.00E-02	-1.00E-02	1.00E-02
L3	-1.34E+03	1.19E+05	-1.25E+03	1.19E+05
L4	-1.34E+03	1.19E+05	-1.25E+03	1.19E+05
NF	—	—	—	—
NS	-219.	1.50E+05	827.	1.49E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-334. Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

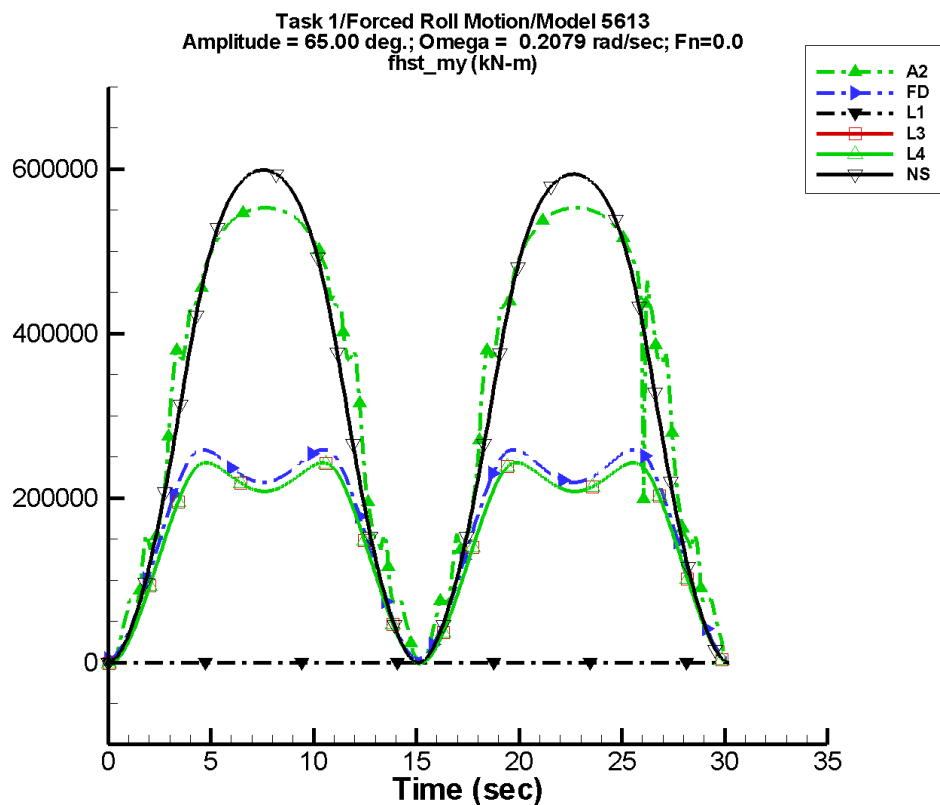
Table C–667. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	2.13E+05	255.	6	1.92E+05	-92
FD	1.32E+05	296.	4	1.13E+05	-89
L1	-7.65E-05	1.35E-02	179	3.02E-04	-93
L3	1.19E+05	907.	-61	1.06E+05	-91
L4	1.19E+05	907.	-61	1.06E+05	-91
NF	—	—	—	—	—
NS	1.69E+05	16.5	170	1.67E+05	-90

Table C–668. Minimum and maximum of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-32.1	3.87E+05	448.	3.86E+05
FD	4.18E+03	2.33E+05	4.16E+03	2.33E+05
L1	-1.23E-02	1.23E-02	-1.23E-02	1.23E-02
L3	-1.34E+03	2.15E+05	-1.14E+03	2.15E+05
L4	-1.34E+03	2.15E+05	-1.14E+03	2.15E+05
NF	—	—	—	—
NS	-219.	3.36E+05	830.	3.35E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-335. Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

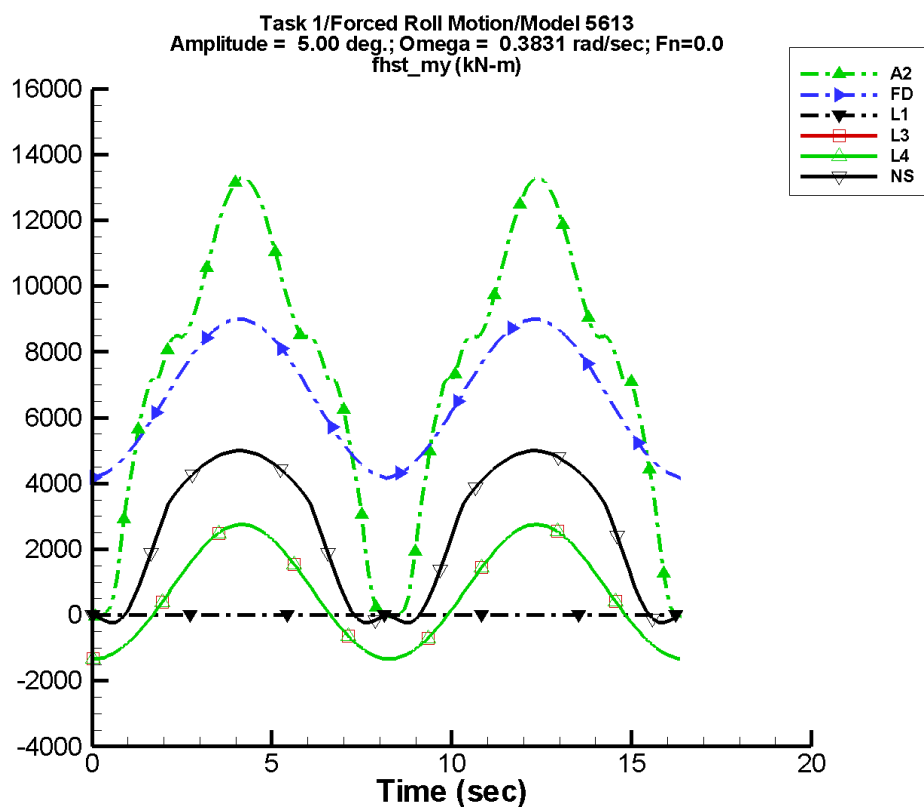
Table C–669. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.39E+05	2.29E+03	-28	2.72E+05	-91
FD	1.73E+05	1.41E+03	6	1.07E+05	-87
L1	-2.16E-04	1.40E-02	180	8.49E-04	-93
L3	1.62E+05	4.14E+03	-60	9.97E+04	-91
L4	1.62E+05	4.14E+03	-60	9.97E+04	-91
NF	—	—	—	—	—
NS	3.26E+05	1.50E+03	2	3.06E+05	-90

Table C–670. Minimum and maximum of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	8.57	5.53E+05	340.	5.53E+05
FD	4.18E+03	2.59E+05	4.81E+03	2.58E+05
L1	-1.24E-02	1.24E-02	-1.24E-02	1.24E-02
L3	-1.34E+03	2.43E+05	-912.	2.42E+05
L4	-1.34E+03	2.43E+05	-912.	2.42E+05
NF	—	—	—	—
NS	-220.	5.99E+05	826.	5.98E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-336. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

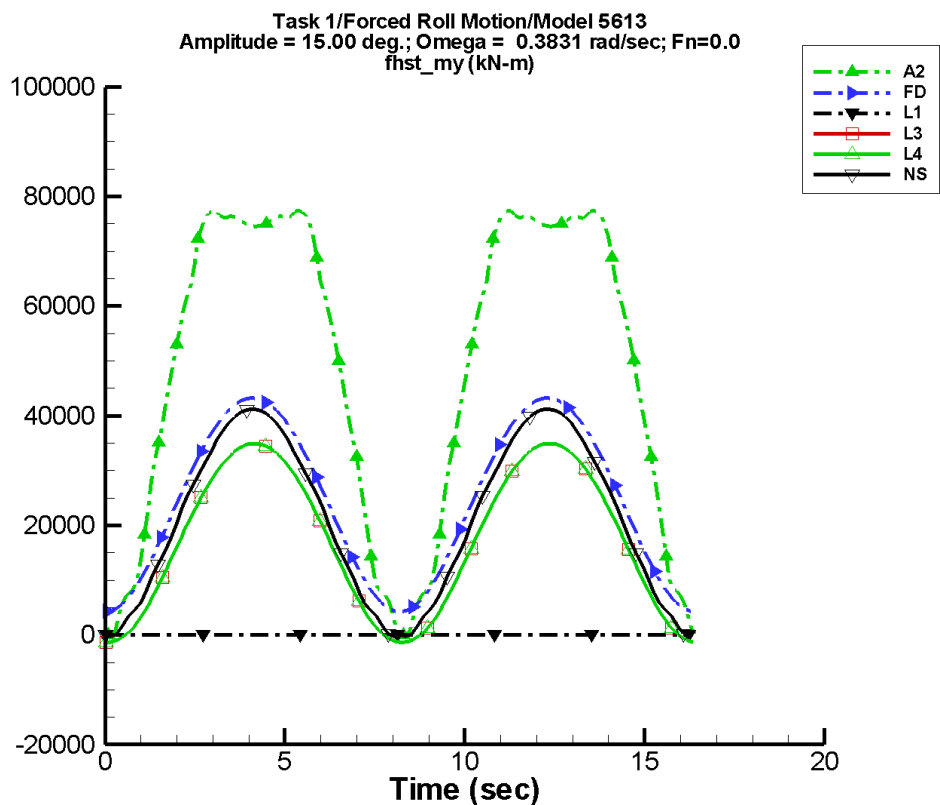
Table C–671. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.33E+03	21.0	-50	5.59E+03	-94
FD	6.62E+03	0.294	-37	2.38E+03	-90
L1	-1.61E-07	1.93E-03	179	2.72E-07	-32
L3	676.	2.75	147	2.04E+03	-93
L4	676.	2.75	147	2.04E+03	-93
NF	—	—	—	—	—
NS	2.57E+03	6.48E-03	6	2.81E+03	-90

Table C–672. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.3	1.33E+04	-110.	1.32E+04
FD	4.16E+03	8.99E+03	4.22E+03	8.96E+03
L1	-1.93E-03	1.93E-03	-1.92E-03	1.92E-03
L3	-1.34E+03	2.75E+03	-1.34E+03	2.74E+03
L4	-1.34E+03	2.75E+03	-1.34E+03	2.74E+03
NF	—	—	—	—
NS	-230.	5.00E+03	-179.	4.93E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-337. Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

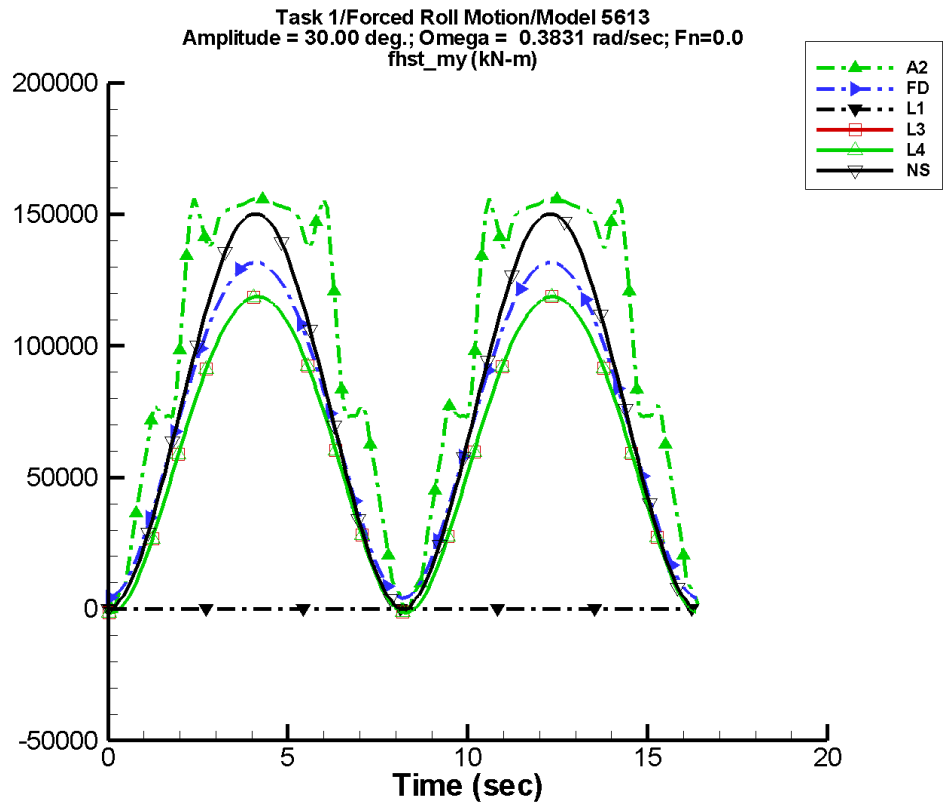
Table C–673. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.84E+04	106.	5	3.87E+04	-93
FD	2.43E+04	25.3	-59	1.94E+04	-90
L1	-4.13E-06	5.65E-03	179	7.21E-06	-32
L3	1.71E+04	34.4	-32	1.82E+04	-93
L4	1.71E+04	34.4	-32	1.82E+04	-93
NF	—	—	—	—	—
NS	2.09E+04	5.06E-03	65	2.04E+04	-90

Table C–674. Minimum and maximum of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.1	7.75E+04	642.	7.68E+04
FD	4.18E+03	4.32E+04	4.45E+03	4.29E+04
L1	-5.60E-03	5.60E-03	-5.59E-03	5.59E-03
L3	-1.34E+03	3.49E+04	-1.37E+03	3.48E+04
L4	-1.34E+03	3.49E+04	-1.37E+03	3.48E+04
NF	—	—	—	—
NS	-231.	4.12E+04	398.	4.04E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-338. Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

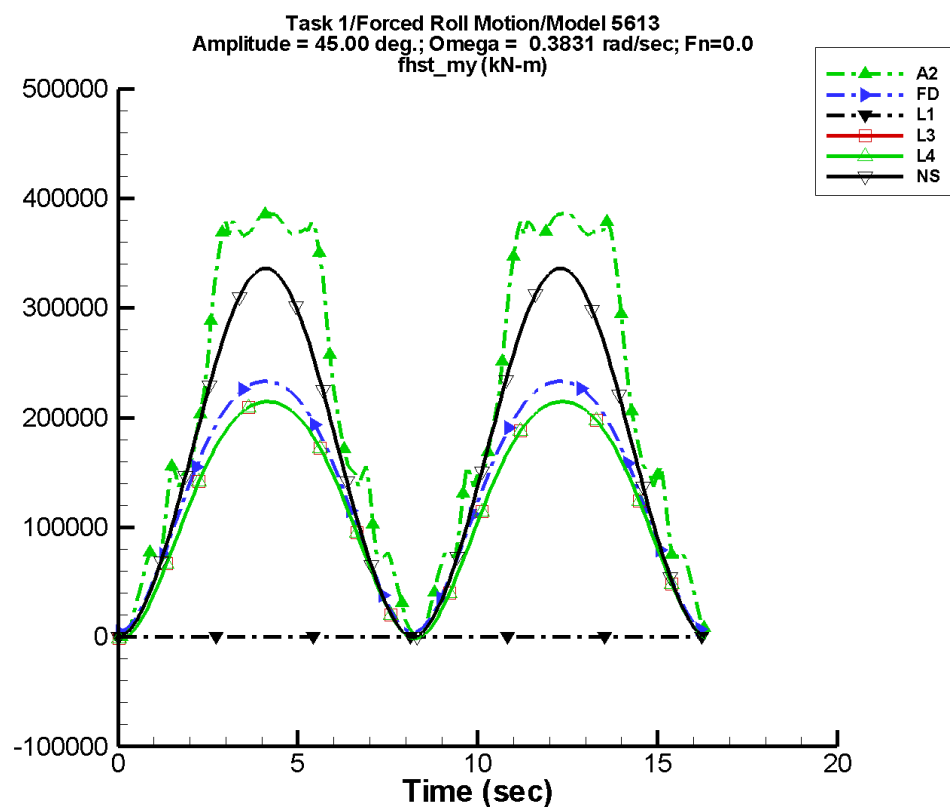
Table C–675. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.01E+05	244.	-21	7.20E+04	-93
FD	7.21E+04	166.	-59	6.29E+04	-90
L1	-3.22E-05	1.04E-02	179	5.64E-05	-32
L3	6.22E+04	275.	-33	5.95E+04	-92
L4	6.22E+04	275.	-33	5.95E+04	-92
NF	—	—	—	—	—
NS	7.66E+04	1.67E-02	-95	7.44E+04	-90

Table C–676. Minimum and maximum of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.0	1.56E+05	1.19E+03	1.56E+05
FD	4.20E+03	1.32E+05	5.18E+03	1.31E+05
L1	-1.00E-02	1.00E-02	-1.00E-02	1.00E-02
L3	-1.34E+03	1.19E+05	-1.42E+03	1.18E+05
L4	-1.34E+03	1.19E+05	-1.42E+03	1.18E+05
NF	—	—	—	—
NS	-219.	1.50E+05	827.	1.49E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-339. Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

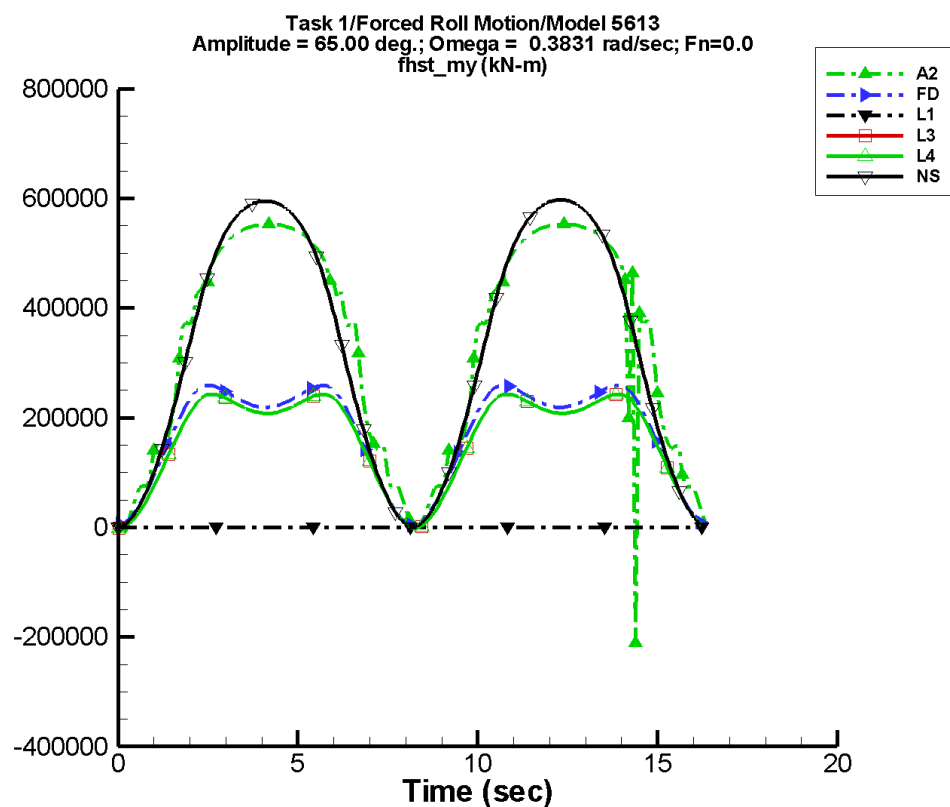
Table C-677. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	2.13E+05	98.1	-15	1.91E+05	-94
FD	1.32E+05	565.	-59	1.12E+05	-90
L1	-1.05E-04	1.34E-02	179	1.84E-04	-32
L3	1.19E+05	928.	-33	1.06E+05	-92
L4	1.19E+05	928.	-33	1.06E+05	-92
NF	—	—	—	—	—
NS	1.69E+05	16.5	170	1.67E+05	-90

Table C-678. Minimum and maximum of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-37.9	3.86E+05	4.08E+03	3.84E+05
FD	4.22E+03	2.33E+05	6.44E+03	2.32E+05
L1	-1.23E-02	1.23E-02	-1.23E-02	1.23E-02
L3	-1.34E+03	2.15E+05	-1.43E+03	2.14E+05
L4	-1.34E+03	2.15E+05	-1.43E+03	2.14E+05
NF	—	—	—	—
NS	-219.	3.36E+05	831.	3.35E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-340. Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

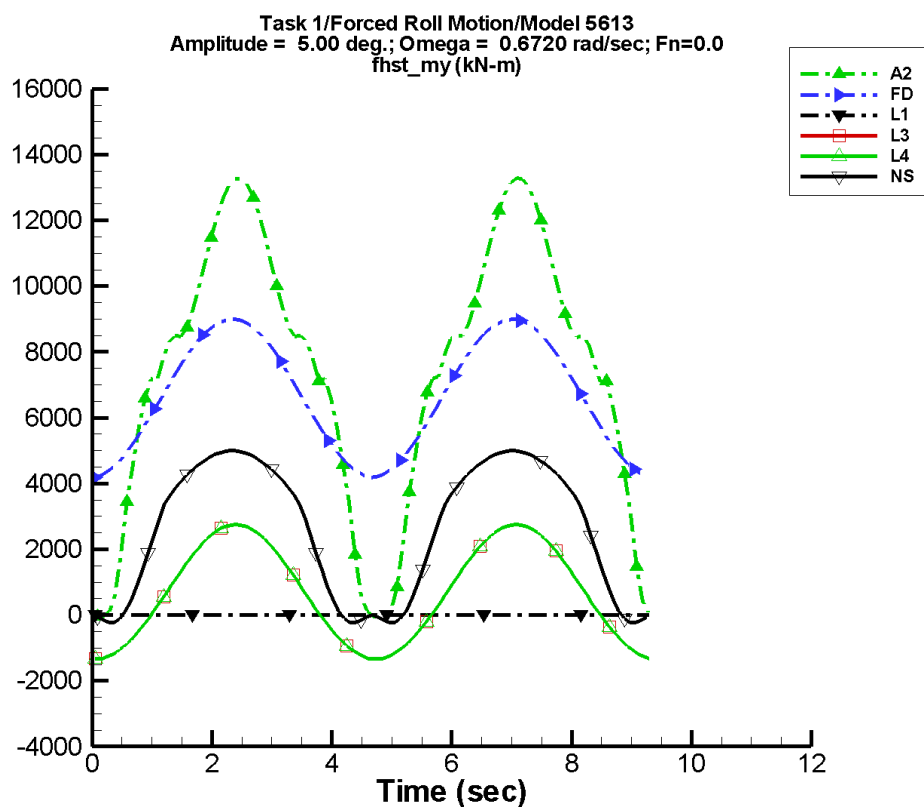
Table C–679. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.34E+05	1.11E+04	-46	2.71E+05	-92
FD	1.74E+05	3.04E+03	-59	1.02E+05	-89
L1	-2.94E-04	1.38E-02	-179	5.16E-04	-32
L3	1.58E+05	4.60E+03	-33	1.02E+05	-90
L4	1.58E+05	4.60E+03	-33	1.02E+05	-90
NF	—	—	—	—	—
NS	3.26E+05	594.	174	3.06E+05	-90

Table C–680. Minimum and maximum of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-2.11E+05	5.53E+05	7.83E+03	5.54E+05
FD	4.26E+03	2.59E+05	8.90E+03	2.55E+05
L1	-1.24E-02	1.24E-02	-1.24E-02	1.24E-02
L3	-1.34E+03	2.43E+05	-1.14E+03	2.42E+05
L4	-1.34E+03	2.43E+05	-1.14E+03	2.42E+05
NF	—	—	—	—
NS	-238.	5.97E+05	658.	5.97E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-341. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

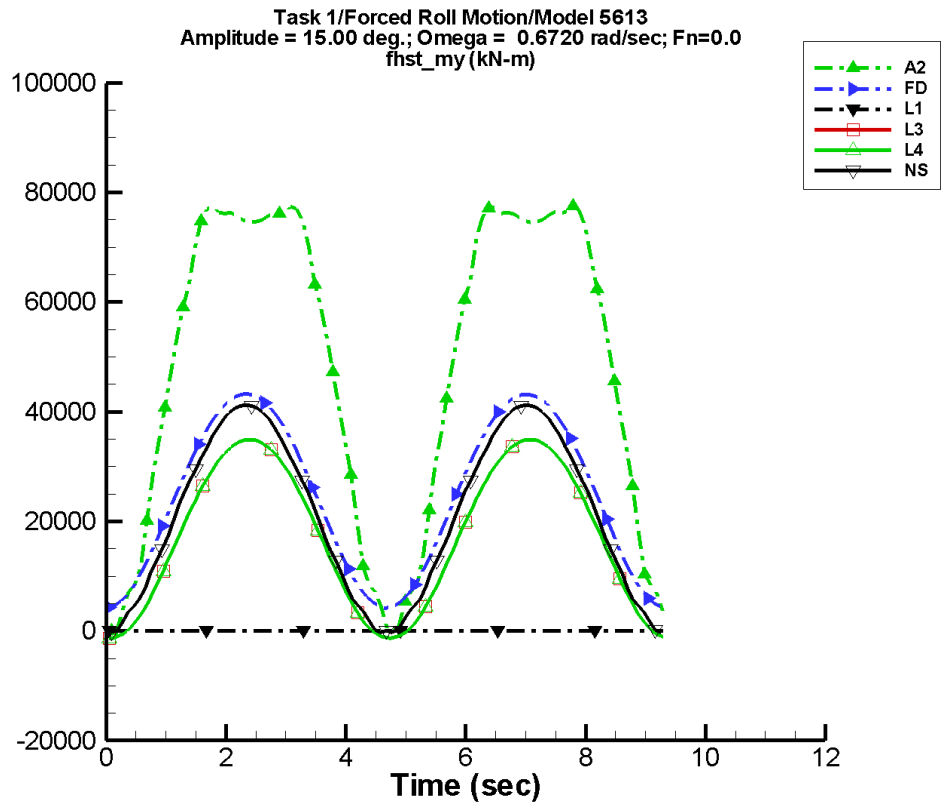
Table C–681. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.33E+03	29.7	-45	5.60E+03	-97
FD	6.62E+03	1.16	-30	2.38E+03	-90
L1	-2.60E-08	1.93E-03	178	3.88E-07	-125
L3	675.	1.18	-6	2.04E+03	-95
L4	675.	1.18	-6	2.04E+03	-95
NF	—	—	—	—	—
NS	2.57E+03	5.34E-03	87	2.81E+03	-90

Table C–682. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.2	1.33E+04	120.	1.28E+04
FD	4.16E+03	8.99E+03	4.25E+03	8.92E+03
L1	-1.93E-03	1.93E-03	-1.92E-03	1.92E-03
L3	-1.34E+03	2.75E+03	-1.34E+03	2.71E+03
L4	-1.34E+03	2.75E+03	-1.34E+03	2.71E+03
NF	—	—	—	—
NS	-230.	5.00E+03	-179.	4.93E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-342. Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

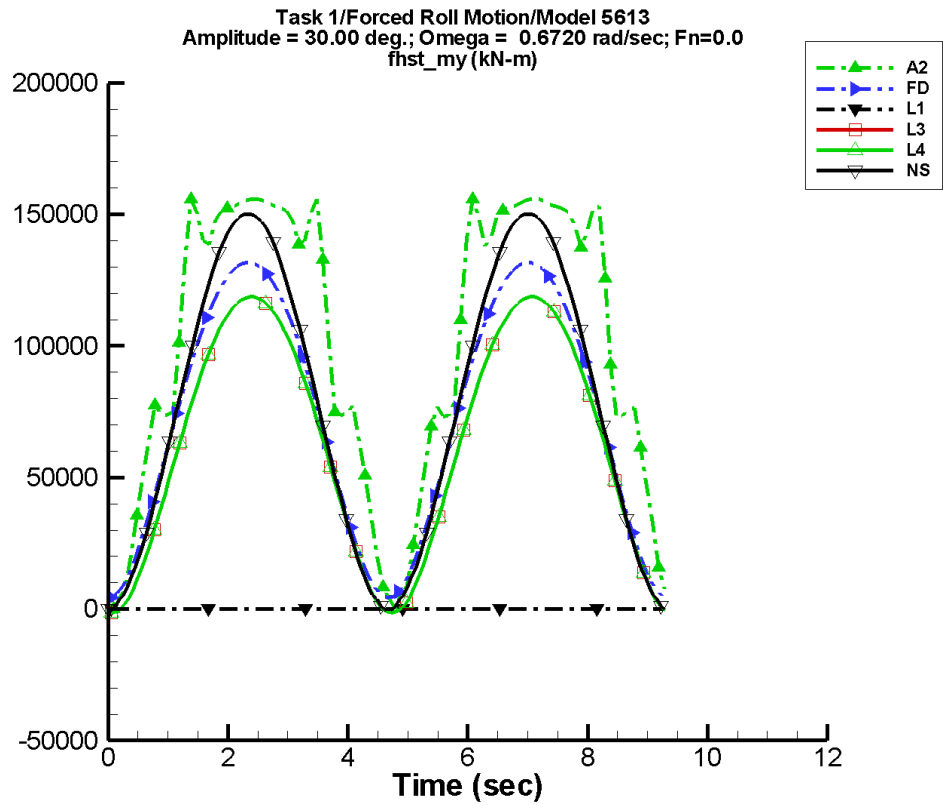
Table C–683. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.87E+04	827.	-3	3.96E+04	-96
FD	2.42E+04	38.6	-29	1.94E+04	-90
L1	-2.11E-08	5.65E-03	178	1.04E-05	-125
L3	1.71E+04	13.7	164	1.82E+04	-94
L4	1.71E+04	13.7	164	1.82E+04	-94
NF	—	—	—	—	—
NS	2.09E+04	2.38E-02	-172	2.04E+04	-90

Table C–684. Minimum and maximum of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-37.9	7.75E+04	1.03E+03	7.64E+04
FD	4.16E+03	4.32E+04	4.74E+03	4.26E+04
L1	-5.60E-03	5.60E-03	-5.58E-03	5.58E-03
L3	-1.34E+03	3.49E+04	-1.34E+03	3.47E+04
L4	-1.34E+03	3.49E+04	-1.34E+03	3.47E+04
NF	—	—	—	—
NS	-231.	4.12E+04	398.	4.04E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-343. Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

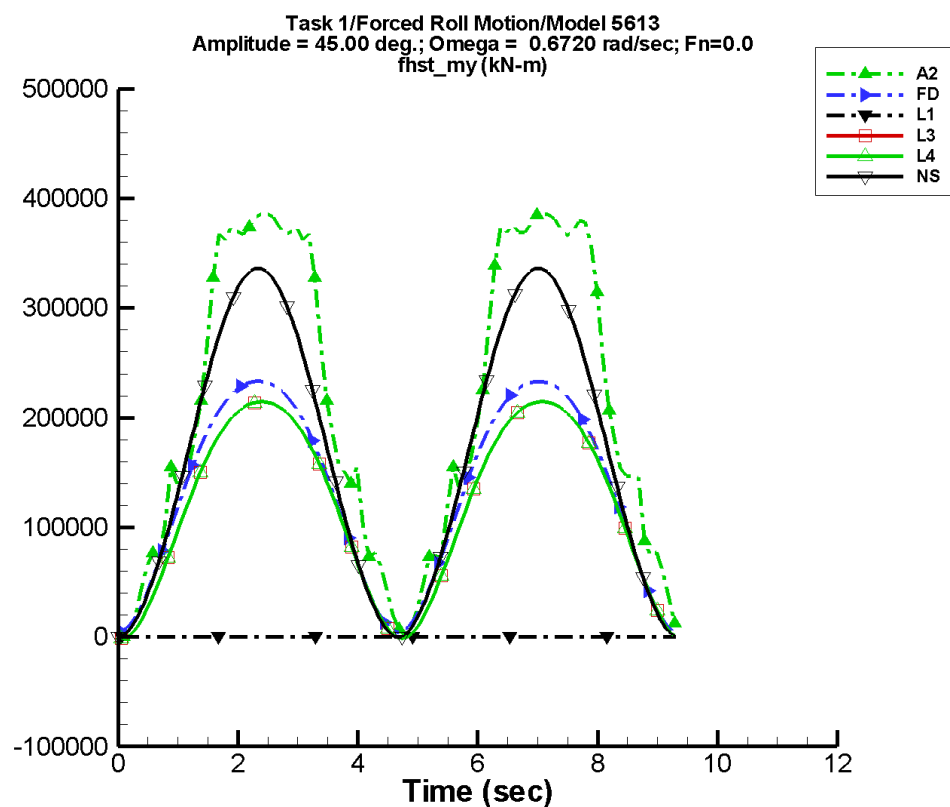
Table C–685. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.02E+05	1.40E+03	-8	7.34E+04	-96
FD	7.19E+04	264.	-29	6.30E+04	-90
L1	2.99E-07	1.04E-02	178	8.15E-05	-125
L3	6.22E+04	95.5	171	5.94E+04	-94
L4	6.22E+04	95.5	171	5.94E+04	-94
NF	—	—	—	—	—
NS	7.66E+04	2.91E-02	-17	7.44E+04	-90

Table C–686. Minimum and maximum of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-36.9	1.56E+05	6.12E+03	1.54E+05
FD	4.16E+03	1.32E+05	6.45E+03	1.30E+05
L1	-1.00E-02	1.00E-02	-1.00E-02	1.00E-02
L3	-1.34E+03	1.19E+05	-1.26E+03	1.18E+05
L4	-1.34E+03	1.19E+05	-1.26E+03	1.18E+05
NF	—	—	—	—
NS	-219.	1.50E+05	827.	1.49E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-344. Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

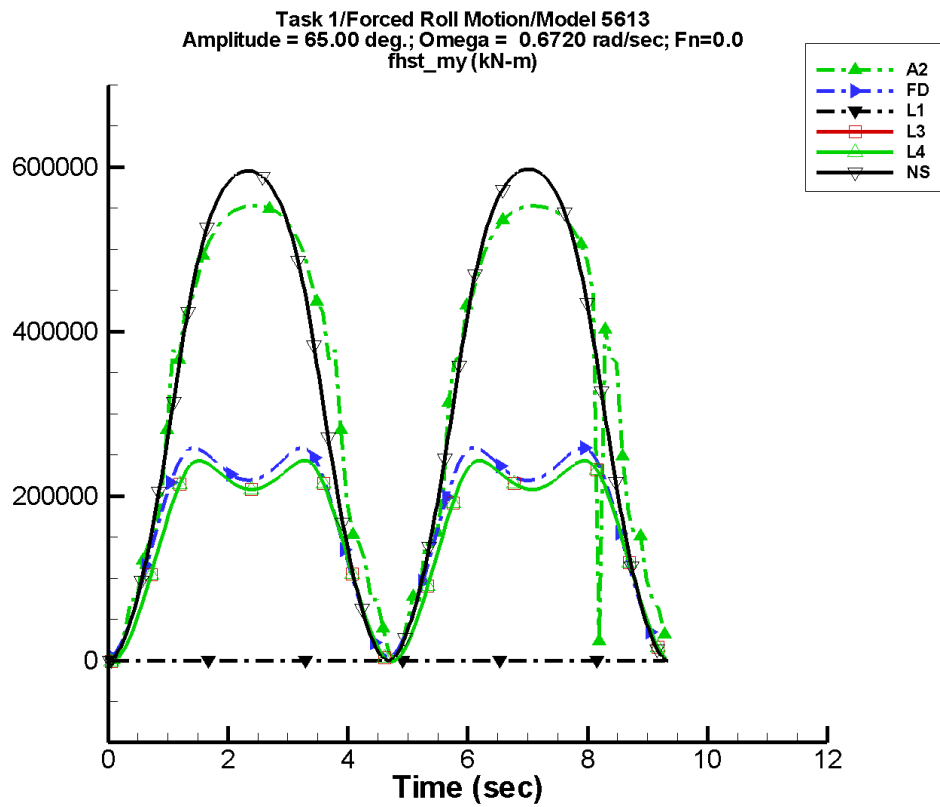
Table C–687. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	2.13E+05	676.	-1	1.93E+05	-98
FD	1.32E+05	895.	-29	1.13E+05	-89
L1	9.67E-07	1.35E-02	178	2.65E-04	-125
L3	1.19E+05	328.	171	1.06E+05	-94
L4	1.19E+05	328.	171	1.06E+05	-94
NF	—	—	—	—	—
NS	1.69E+05	16.6	170	1.67E+05	-90

Table C–688. Minimum and maximum of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-20.2	3.86E+05	9.39E+03	3.81E+05
FD	4.16E+03	2.33E+05	9.39E+03	2.32E+05
L1	-1.23E-02	1.23E-02	-1.23E-02	1.23E-02
L3	-1.34E+03	2.15E+05	-908.	2.14E+05
L4	-1.34E+03	2.15E+05	-908.	2.14E+05
NF	—	—	—	—
NS	-219.	3.36E+05	831.	3.35E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-345. Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

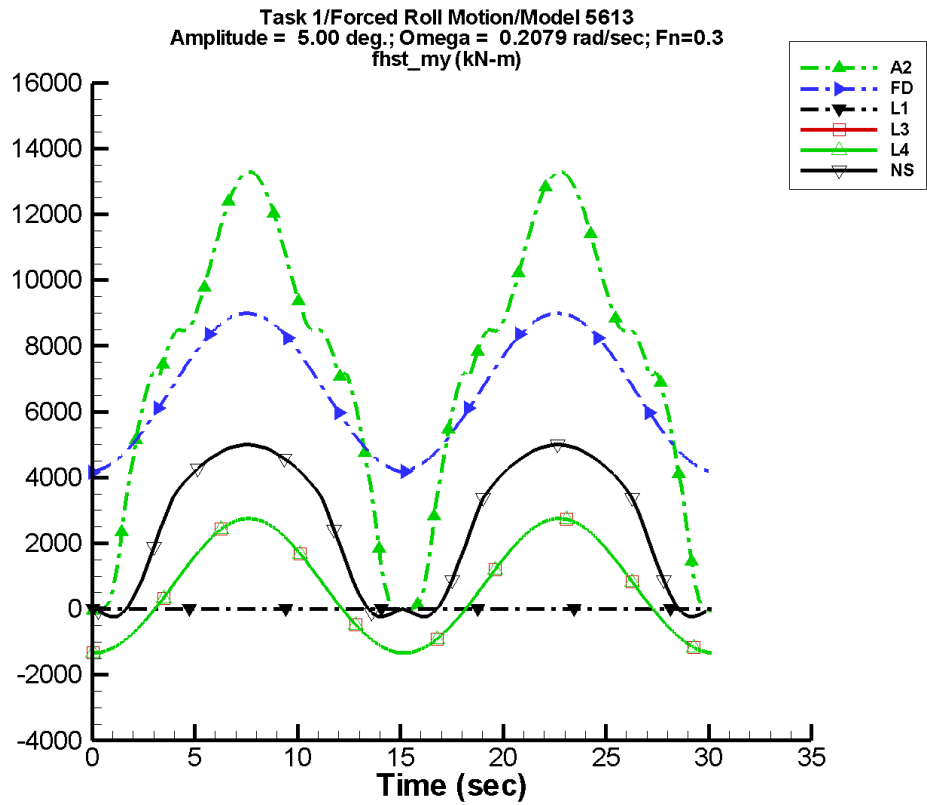
Table C–689. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.36E+05	1.20E+04	-33	2.74E+05	-95
FD	1.71E+05	4.41E+03	-29	1.04E+05	-87
L1	1.23E-06	1.38E-02	179	7.45E-04	-125
L3	1.58E+05	1.80E+03	169	1.02E+05	-91
L4	1.58E+05	1.80E+03	169	1.02E+05	-91
NF	—	—	—	—	—
NS	3.26E+05	588.	-180	3.06E+05	-90

Table C–690. Minimum and maximum of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	75.6	5.53E+05	1.35E+04	5.54E+05
FD	4.16E+03	2.59E+05	1.57E+04	2.49E+05
L1	-1.24E-02	1.24E-02	-1.23E-02	1.23E-02
L3	-1.34E+03	2.43E+05	336.	2.39E+05
L4	-1.34E+03	2.43E+05	336.	2.39E+05
NF	—	—	—	—
NS	-238.	5.97E+05	659.	5.97E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-346. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

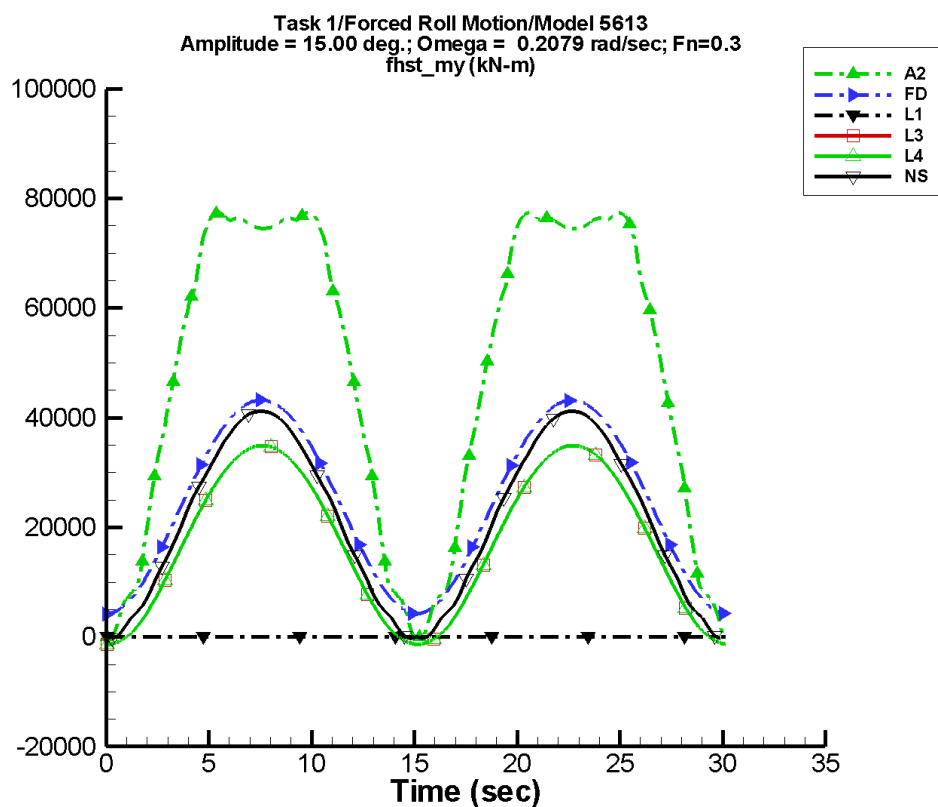
Table C–691. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.33E+03	18.3	-52	5.58E+03	-92
FD	6.62E+03	0.470	-17	2.38E+03	-90
L1	-1.12E-07	1.93E-03	179	4.40E-07	-93
L3	674.	2.44	121	2.04E+03	-91
L4	674.	2.44	121	2.04E+03	-91
NF	—	—	—	—	—
NS	2.57E+03	9.19E-03	26	2.81E+03	-90

Table C–692. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.2	1.33E+04	-69.8	1.32E+04
FD	4.16E+03	8.99E+03	4.17E+03	8.98E+03
L1	-1.93E-03	1.93E-03	-1.92E-03	1.92E-03
L3	-1.34E+03	2.75E+03	-1.34E+03	2.75E+03
L4	-1.34E+03	2.75E+03	-1.34E+03	2.75E+03
NF	—	—	—	—
NS	-230.	5.00E+03	-179.	4.93E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-347. Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

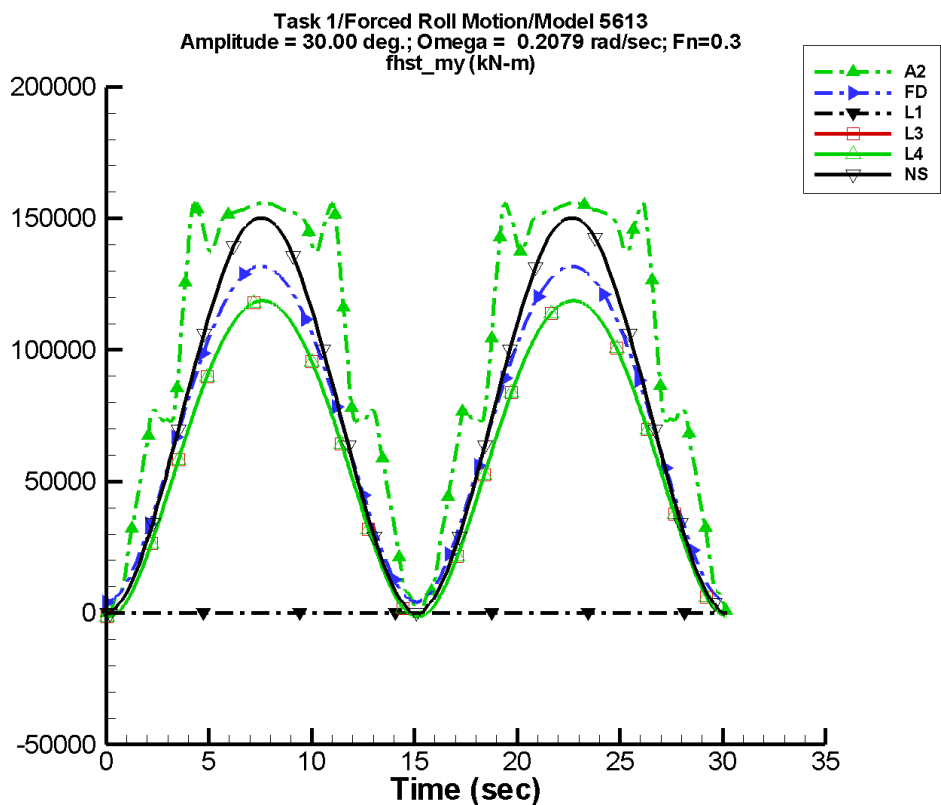
Table C–693. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.84E+04	200.	2	3.88E+04	-91
FD	2.43E+04	12.5	5	1.95E+04	-90
L1	-3.00E-06	5.65E-03	179	1.18E-05	-93
L3	1.72E+04	29.9	-59	1.82E+04	-91
L4	1.72E+04	29.9	-59	1.82E+04	-91
NF	—	—	—	—	—
NS	2.09E+04	9.60E-03	-86	2.04E+04	-90

Table C–694. Minimum and maximum of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.0	7.75E+04	-133.	7.71E+04
FD	4.16E+03	4.32E+04	4.15E+03	4.31E+04
L1	-5.60E-03	5.60E-03	-5.60E-03	5.60E-03
L3	-1.34E+03	3.49E+04	-1.32E+03	3.49E+04
L4	-1.34E+03	3.49E+04	-1.32E+03	3.49E+04
NF	—	—	—	—
NS	-231.	4.12E+04	398.	4.04E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-348. Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

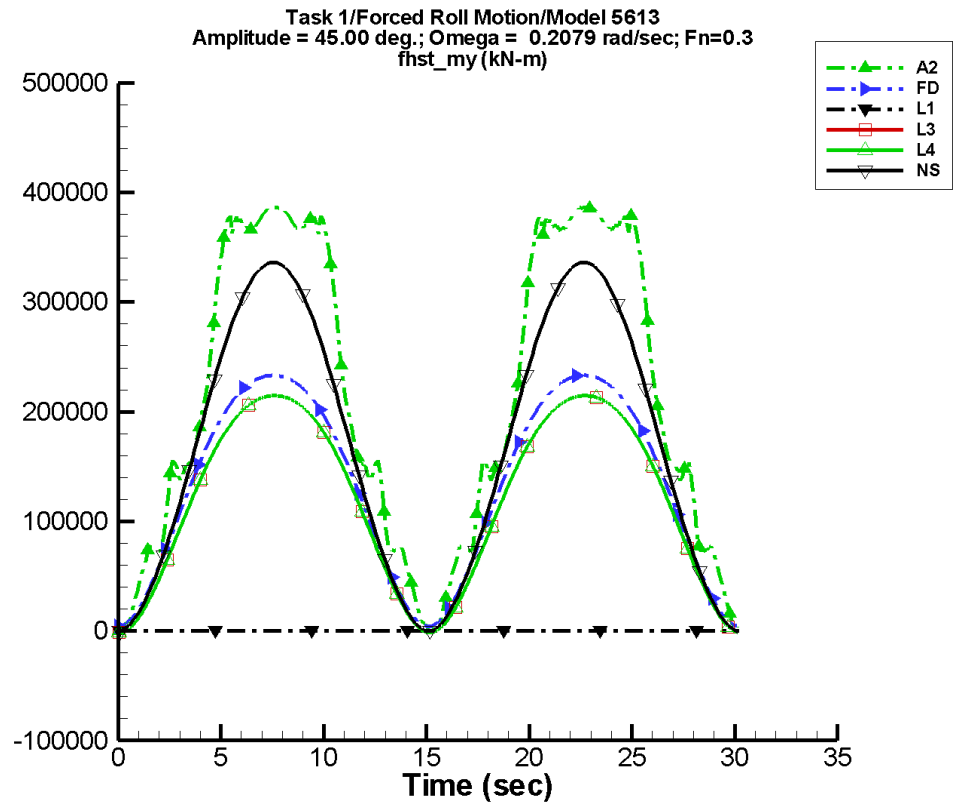
Table C–695. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.01E+05	368.	-13	7.21E+04	-91
FD	7.20E+04	87.2	3	6.32E+04	-90
L1	-2.35E-05	1.04E-02	179	9.25E-05	-93
L3	6.24E+04	283.	-61	5.93E+04	-91
L4	6.24E+04	283.	-61	5.93E+04	-91
NF	—	—	—	—	—
NS	7.66E+04	2.53E-02	22	7.44E+04	-90

Table C–696. Minimum and maximum of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.0	1.56E+05	428.	1.56E+05
FD	4.17E+03	1.32E+05	4.12E+03	1.32E+05
L1	-1.00E-02	1.00E-02	-1.00E-02	1.00E-02
L3	-1.34E+03	1.19E+05	-1.26E+03	1.19E+05
L4	-1.34E+03	1.19E+05	-1.26E+03	1.19E+05
NF	—	—	—	—
NS	-219.	1.50E+05	827.	1.49E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-349. Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

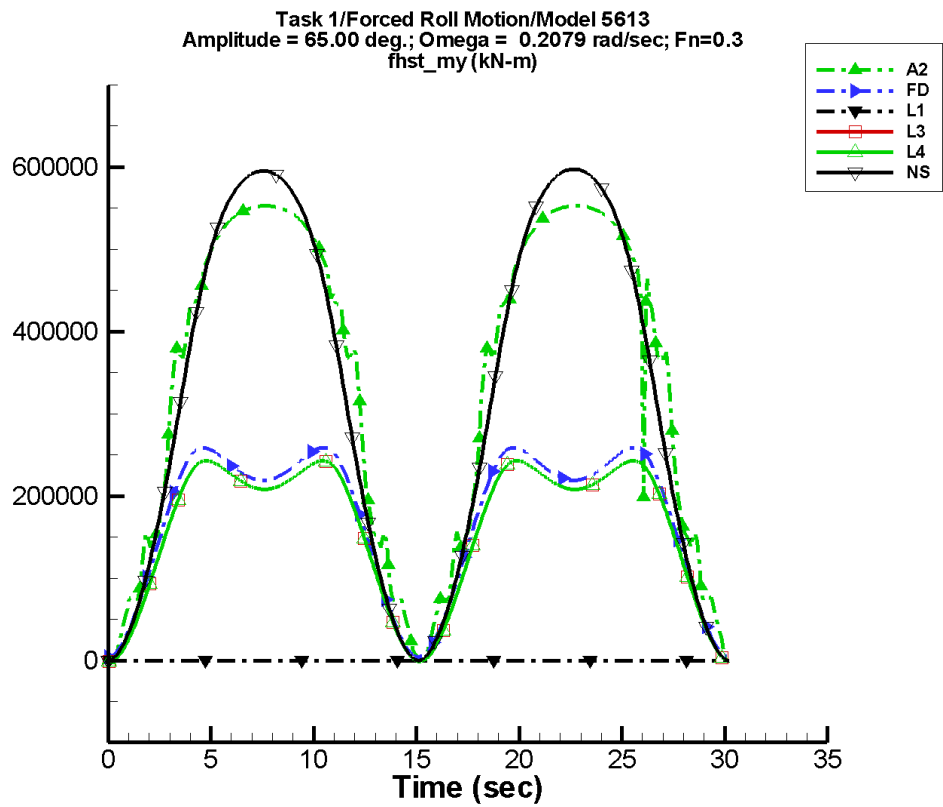
Table C–697. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	2.13E+05	255.	6	1.92E+05	-92
FD	1.32E+05	296.	4	1.13E+05	-89
L1	-7.65E-05	1.35E-02	179	3.02E-04	-93
L3	1.19E+05	907.	-61	1.06E+05	-91
L4	1.19E+05	907.	-61	1.06E+05	-91
NF	—	—	—	—	—
NS	1.69E+05	16.5	170	1.67E+05	-90

Table C–698. Minimum and maximum of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-32.1	3.87E+05	448.	3.86E+05
FD	4.18E+03	2.33E+05	4.16E+03	2.33E+05
L1	-1.23E-02	1.23E-02	-1.23E-02	1.23E-02
L3	-1.34E+03	2.15E+05	-1.14E+03	2.15E+05
L4	-1.34E+03	2.15E+05	-1.14E+03	2.15E+05
NF	—	—	—	—
NS	-219.	3.36E+05	830.	3.35E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-350. Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

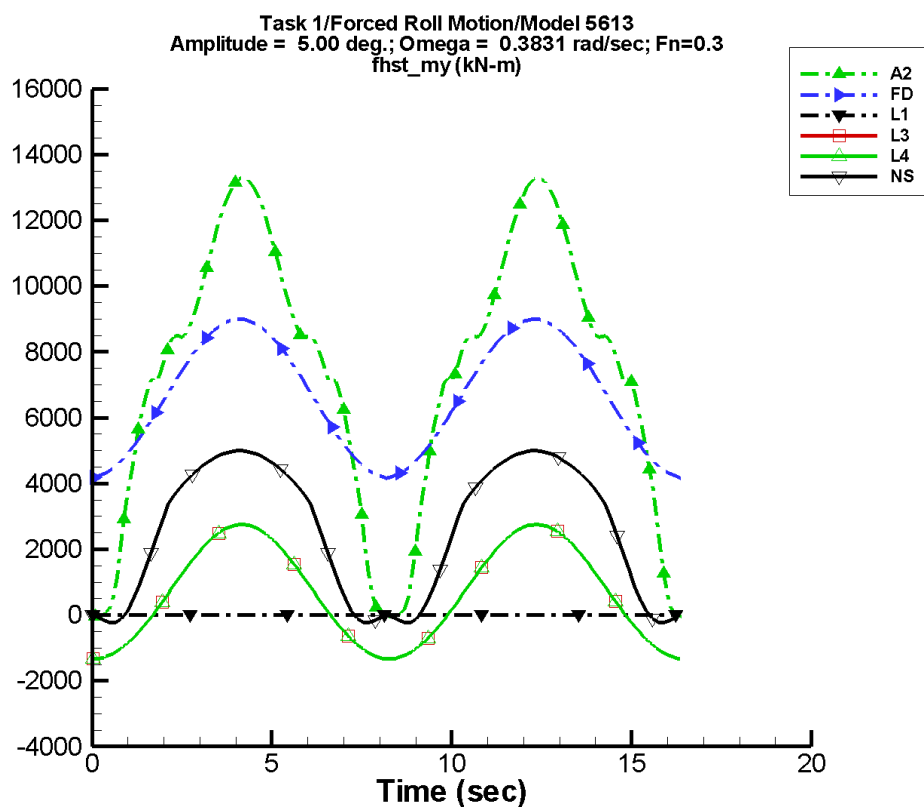
Table C–699. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.39E+05	2.29E+03	-28	2.72E+05	-91
FD	1.73E+05	1.41E+03	6	1.07E+05	-87
L1	-2.16E-04	1.40E-02	180	8.49E-04	-93
L3	1.62E+05	4.14E+03	-60	9.97E+04	-91
L4	1.62E+05	4.14E+03	-60	9.97E+04	-91
NF	—	—	—	—	—
NS	3.26E+05	593.	-180	3.06E+05	-90

Table C–700. Minimum and maximum of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	8.57	5.53E+05	340.	5.53E+05
FD	4.18E+03	2.59E+05	4.81E+03	2.58E+05
L1	-1.24E-02	1.24E-02	-1.24E-02	1.24E-02
L3	-1.34E+03	2.43E+05	-912.	2.42E+05
L4	-1.34E+03	2.43E+05	-912.	2.42E+05
NF	—	—	—	—
NS	-238.	5.97E+05	660.	5.97E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-351. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

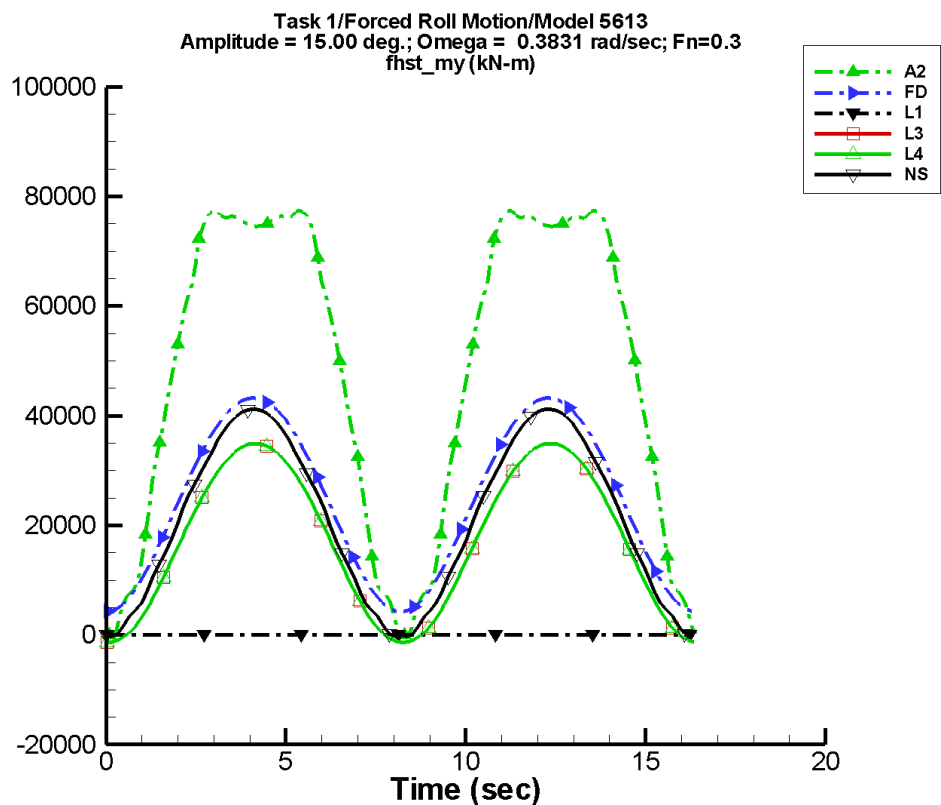
Table C–701. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.33E+03	21.0	-50	5.59E+03	-94
FD	6.62E+03	0.283	-37	2.38E+03	-90
L1	-1.61E-07	1.93E-03	179	2.72E-07	-32
L3	676.	2.76	145	2.04E+03	-93
L4	676.	2.76	145	2.04E+03	-93
NF	—	—	—	—	—
NS	2.57E+03	6.48E-03	6	2.81E+03	-90

Table C–702. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.3	1.33E+04	-110.	1.32E+04
FD	4.16E+03	8.99E+03	4.22E+03	8.96E+03
L1	-1.93E-03	1.93E-03	-1.92E-03	1.92E-03
L3	-1.34E+03	2.75E+03	-1.34E+03	2.74E+03
L4	-1.34E+03	2.75E+03	-1.34E+03	2.74E+03
NF	—	—	—	—
NS	-230.	5.00E+03	-179.	4.93E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-352. Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

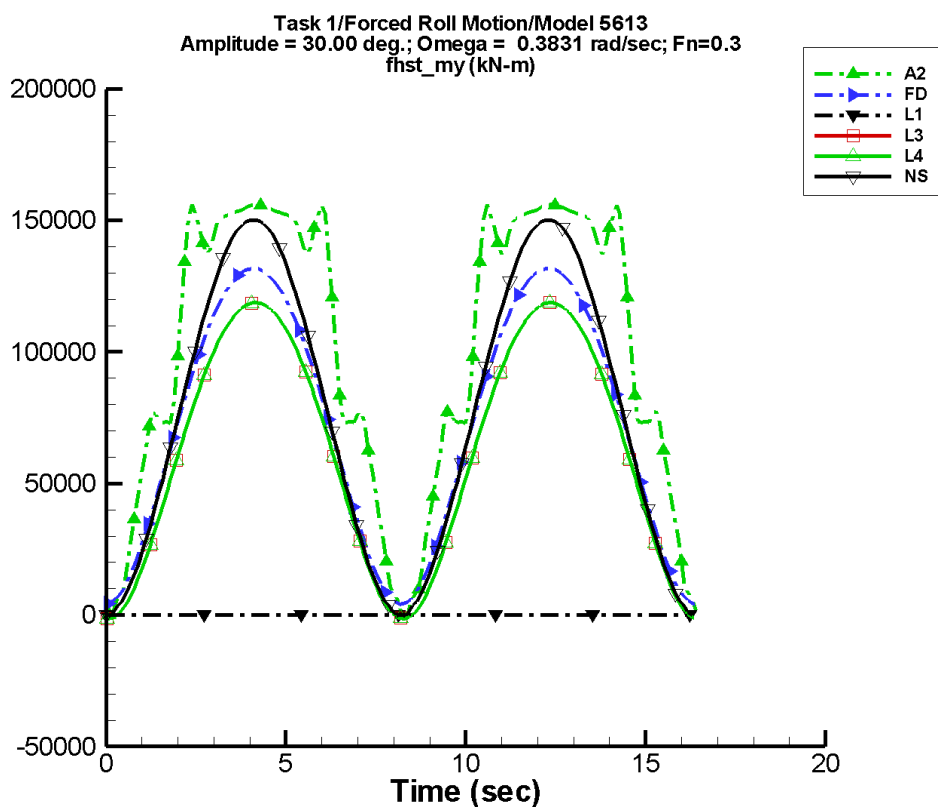
Table C–703. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.84E+04	106.	5	3.87E+04	-93
FD	2.43E+04	25.3	-59	1.94E+04	-90
L1	-4.13E-06	5.65E-03	179	7.21E-06	-32
L3	1.71E+04	34.4	-32	1.82E+04	-93
L4	1.71E+04	34.4	-32	1.82E+04	-93
NF	—	—	—	—	—
NS	2.09E+04	5.06E-03	65	2.04E+04	-90

Table C–704. Minimum and maximum of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.1	7.75E+04	642.	7.68E+04
FD	4.18E+03	4.32E+04	4.45E+03	4.29E+04
L1	-5.60E-03	5.60E-03	-5.59E-03	5.59E-03
L3	-1.34E+03	3.49E+04	-1.37E+03	3.48E+04
L4	-1.34E+03	3.49E+04	-1.37E+03	3.48E+04
NF	—	—	—	—
NS	-231.	4.12E+04	398.	4.04E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-353. Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

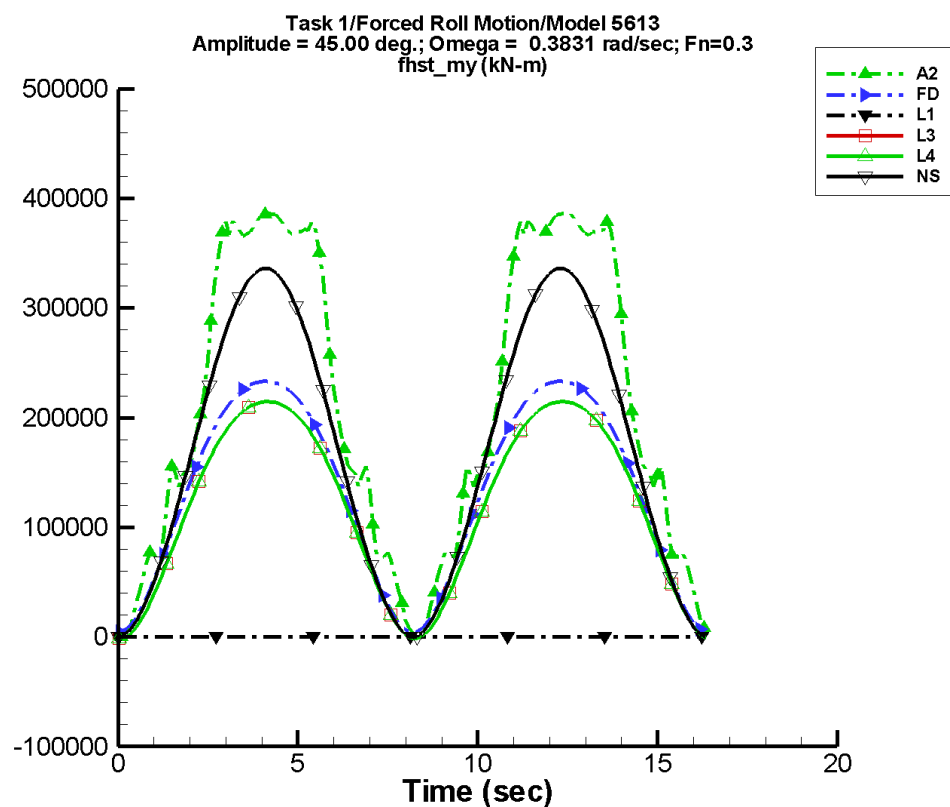
Table C–705. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.01E+05	244.	-21	7.20E+04	-93
FD	7.21E+04	166.	-59	6.29E+04	-90
L1	-3.22E-05	1.04E-02	179	5.64E-05	-32
L3	6.22E+04	275.	-33	5.95E+04	-92
L4	6.22E+04	275.	-33	5.95E+04	-92
NF	—	—	—	—	—
NS	7.66E+04	1.67E-02	-95	7.44E+04	-90

Table C–706. Minimum and maximum of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.0	1.56E+05	1.19E+03	1.56E+05
FD	4.20E+03	1.32E+05	5.18E+03	1.31E+05
L1	-1.00E-02	1.00E-02	-1.00E-02	1.00E-02
L3	-1.34E+03	1.19E+05	-1.42E+03	1.18E+05
L4	-1.34E+03	1.19E+05	-1.42E+03	1.18E+05
NF	—	—	—	—
NS	-219.	1.50E+05	827.	1.49E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-354. Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

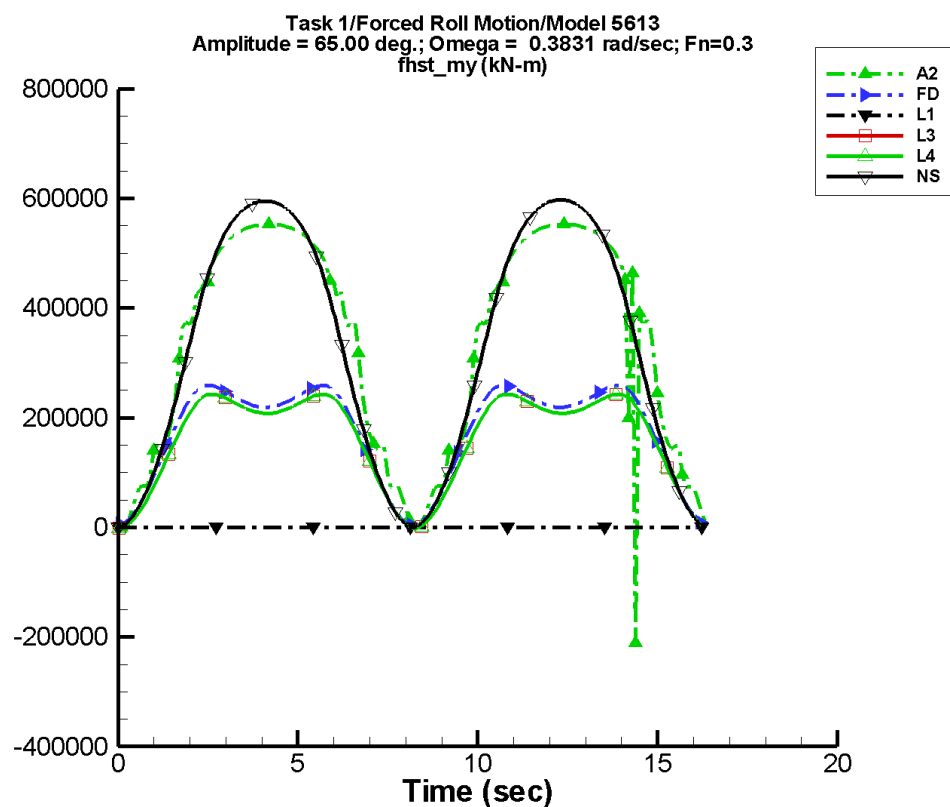
Table C–707. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	2.13E+05	98.1	-15	1.91E+05	-94
FD	1.32E+05	565.	-59	1.12E+05	-90
L1	-1.05E-04	1.34E-02	179	1.84E-04	-32
L3	1.19E+05	928.	-33	1.06E+05	-92
L4	1.19E+05	928.	-33	1.06E+05	-92
NF	—	—	—	—	—
NS	1.69E+05	16.5	170	1.67E+05	-90

Table C–708. Minimum and maximum of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-37.9	3.86E+05	4.08E+03	3.84E+05
FD	4.22E+03	2.33E+05	6.44E+03	2.32E+05
L1	-1.23E-02	1.23E-02	-1.23E-02	1.23E-02
L3	-1.34E+03	2.15E+05	-1.43E+03	2.14E+05
L4	-1.34E+03	2.15E+05	-1.43E+03	2.14E+05
NF	—	—	—	—
NS	-219.	3.36E+05	831.	3.35E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-355. Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

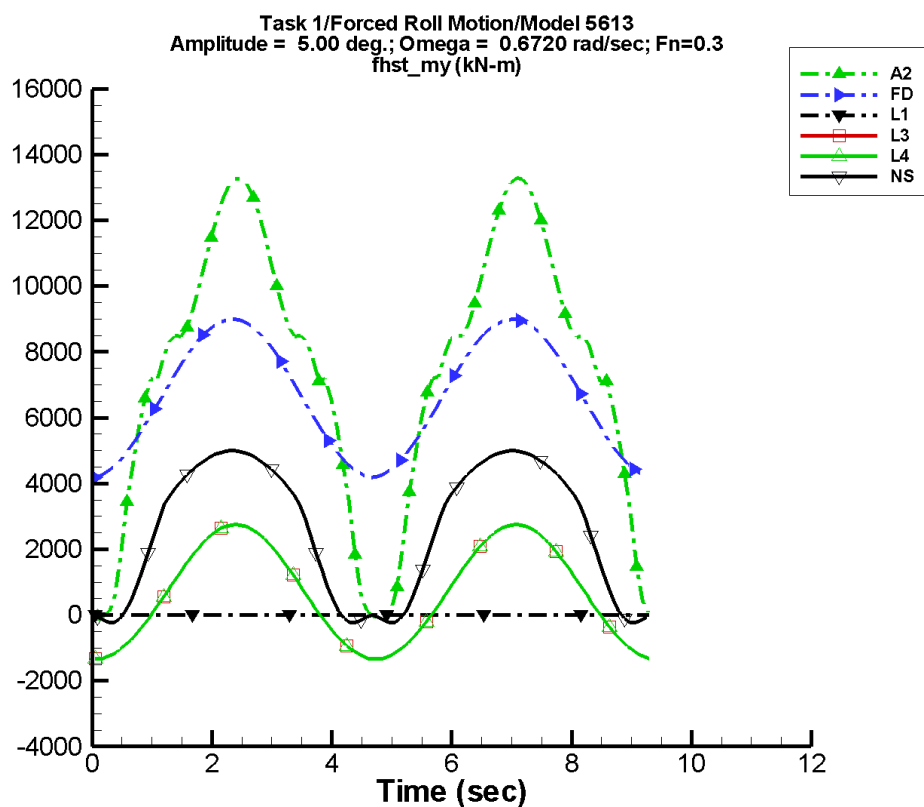
Table C–709. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.34E+05	1.11E+04	-46	2.71E+05	-92
FD	1.74E+05	3.04E+03	-59	1.02E+05	-89
L1	-2.94E-04	1.38E-02	-179	5.16E-04	-32
L3	1.58E+05	4.60E+03	-33	1.02E+05	-90
L4	1.58E+05	4.60E+03	-33	1.02E+05	-90
NF	—	—	—	—	—
NS	3.26E+05	594.	174	3.06E+05	-90

Table C–710. Minimum and maximum of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-2.11E+05	5.53E+05	7.83E+03	5.54E+05
FD	4.26E+03	2.59E+05	8.90E+03	2.55E+05
L1	-1.24E-02	1.24E-02	-1.24E-02	1.24E-02
L3	-1.34E+03	2.43E+05	-1.14E+03	2.42E+05
L4	-1.34E+03	2.43E+05	-1.14E+03	2.42E+05
NF	—	—	—	—
NS	-238.	5.97E+05	658.	5.97E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-356. Time history of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

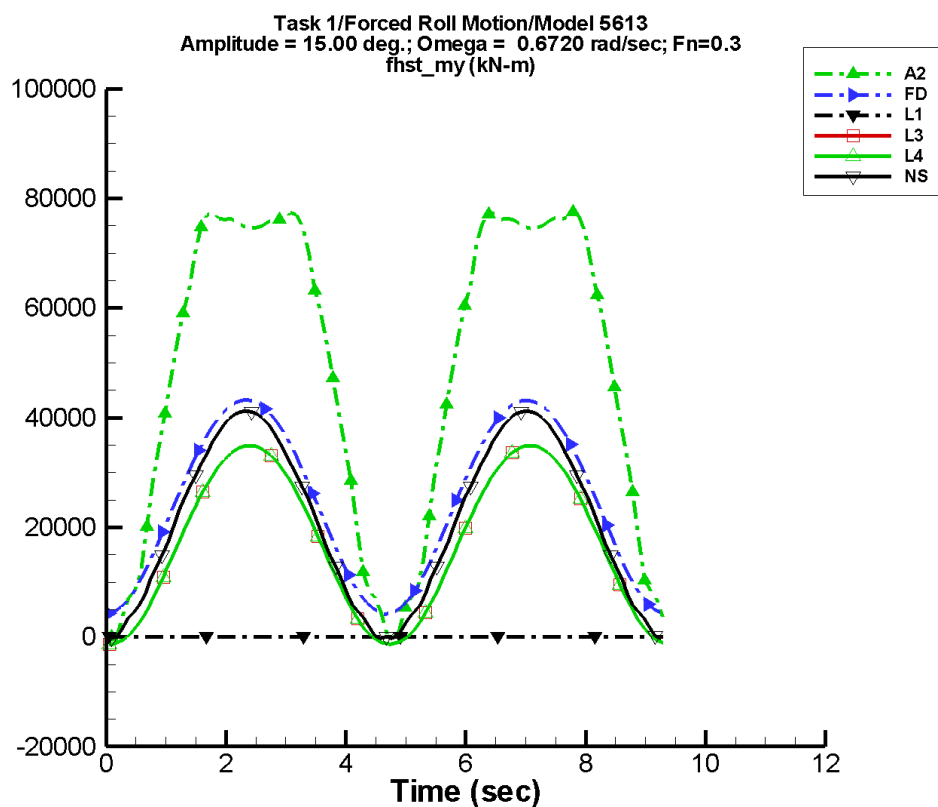
Table C-711. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	7.33E+03	29.7	-45	5.60E+03	-97
FD	6.62E+03	1.16	-29	2.38E+03	-90
L1	-2.60E-08	1.93E-03	178	3.88E-07	-125
L3	675.	1.31	-8	2.04E+03	-95
L4	675.	1.31	-8	2.04E+03	-95
NF	—	—	—	—	—
NS	2.57E+03	5.34E-03	87	2.81E+03	-90

Table C-712. Minimum and maximum of M_y^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-38.2	1.33E+04	120.	1.28E+04
FD	4.16E+03	8.99E+03	4.25E+03	8.92E+03
L1	-1.93E-03	1.93E-03	-1.92E-03	1.92E-03
L3	-1.34E+03	2.75E+03	-1.34E+03	2.71E+03
L4	-1.34E+03	2.75E+03	-1.34E+03	2.71E+03
NF	—	—	—	—
NS	-230.	5.00E+03	-179.	4.93E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-357. Time history of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

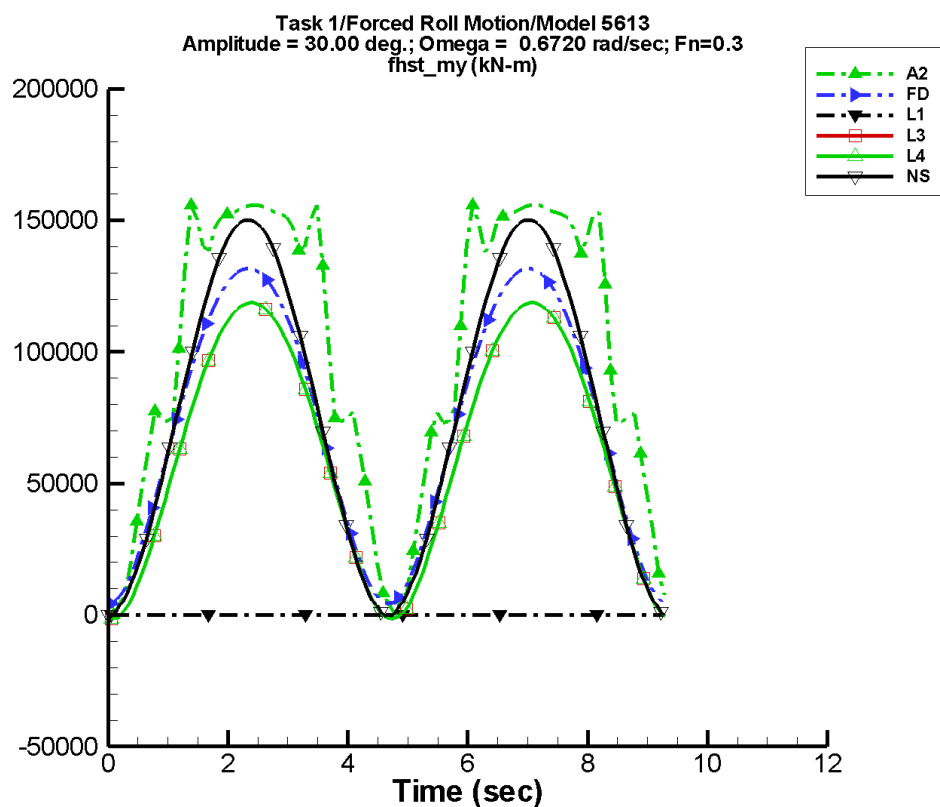
Table C–713. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	4.87E+04	827.	-3	3.96E+04	-96
FD	2.42E+04	38.6	-29	1.94E+04	-90
L1	-2.11E-08	5.65E-03	178	1.04E-05	-125
L3	1.71E+04	13.6	164	1.82E+04	-94
L4	1.71E+04	13.6	164	1.82E+04	-94
NF	—	—	—	—	—
NS	2.09E+04	2.38E-02	-172	2.04E+04	-90

Table C–714. Minimum and maximum of M_y^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-37.9	7.75E+04	1.03E+03	7.64E+04
FD	4.16E+03	4.32E+04	4.74E+03	4.26E+04
L1	-5.60E-03	5.60E-03	-5.58E-03	5.58E-03
L3	-1.34E+03	3.49E+04	-1.34E+03	3.47E+04
L4	-1.34E+03	3.49E+04	-1.34E+03	3.47E+04
NF	—	—	—	—
NS	-231.	4.12E+04	398.	4.04E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-358. Time history of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

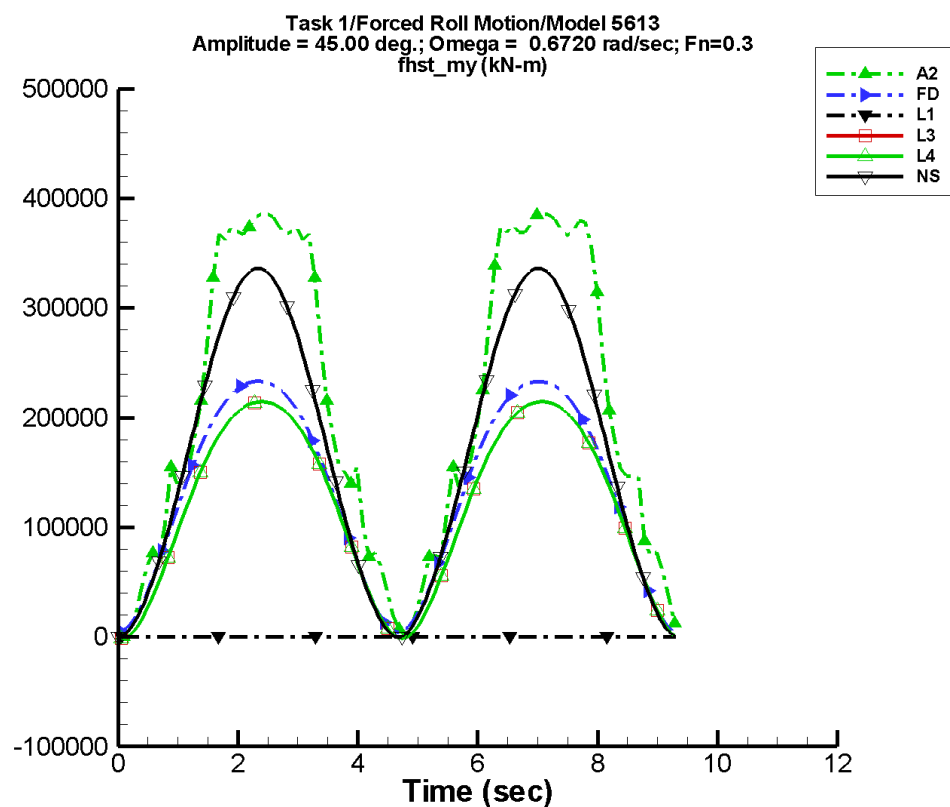
Table C–715. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	1.02E+05	1.40E+03	-8	7.34E+04	-96
FD	7.19E+04	264.	-29	6.30E+04	-90
L1	2.99E-07	1.04E-02	178	8.15E-05	-125
L3	6.22E+04	95.3	171	5.94E+04	-94
L4	6.22E+04	95.3	171	5.94E+04	-94
NF	—	—	—	—	—
NS	7.66E+04	2.91E-02	-17	7.44E+04	-90

Table C–716. Minimum and maximum of M_y^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-36.9	1.56E+05	6.12E+03	1.54E+05
FD	4.16E+03	1.32E+05	6.45E+03	1.30E+05
L1	-1.00E-02	1.00E-02	-1.00E-02	1.00E-02
L3	-1.34E+03	1.19E+05	-1.26E+03	1.18E+05
L4	-1.34E+03	1.19E+05	-1.26E+03	1.18E+05
NF	—	—	—	—
NS	-219.	1.50E+05	827.	1.49E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-359. Time history of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

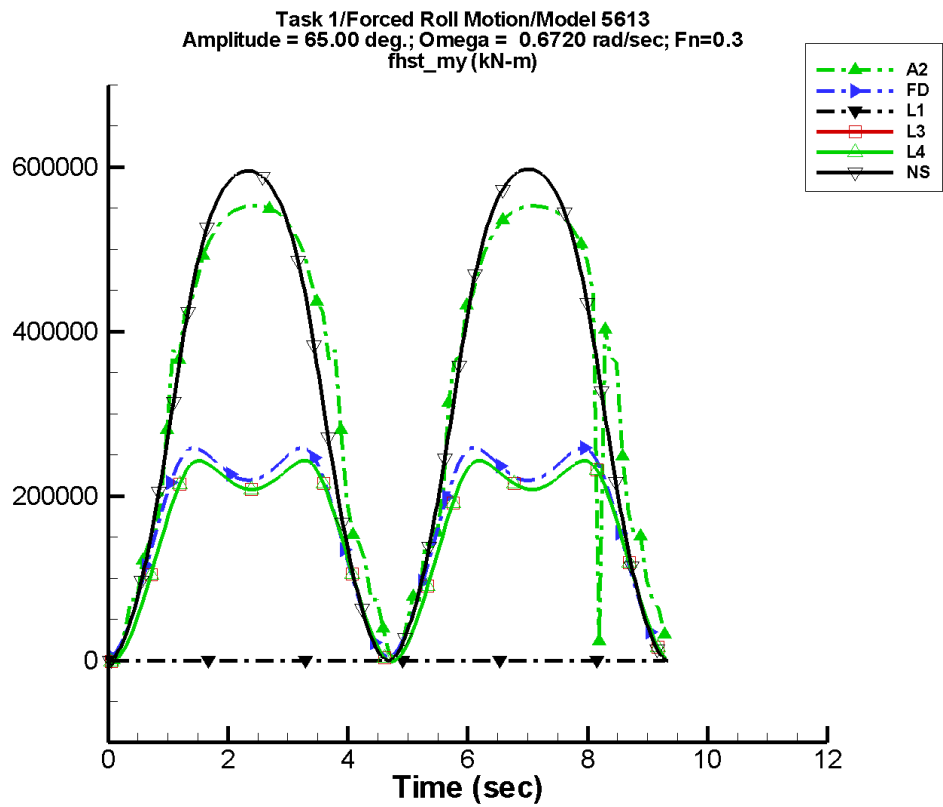
Table C-717. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	2.13E+05	676.	-1	1.93E+05	-98
FD	1.32E+05	895.	-29	1.13E+05	-89
L1	9.67E-07	1.35E-02	178	2.65E-04	-125
L3	1.19E+05	328.	171	1.06E+05	-94
L4	1.19E+05	328.	171	1.06E+05	-94
NF	—	—	—	—	—
NS	1.69E+05	16.6	170	1.67E+05	-90

Table C-718. Minimum and maximum of M_y^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-20.2	3.86E+05	9.39E+03	3.81E+05
FD	4.16E+03	2.33E+05	9.39E+03	2.32E+05
L1	-1.23E-02	1.23E-02	-1.23E-02	1.23E-02
L3	-1.34E+03	2.15E+05	-908.	2.14E+05
L4	-1.34E+03	2.15E+05	-908.	2.14E+05
NF	—	—	—	—
NS	-219.	3.36E+05	831.	3.35E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-360. Time history of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

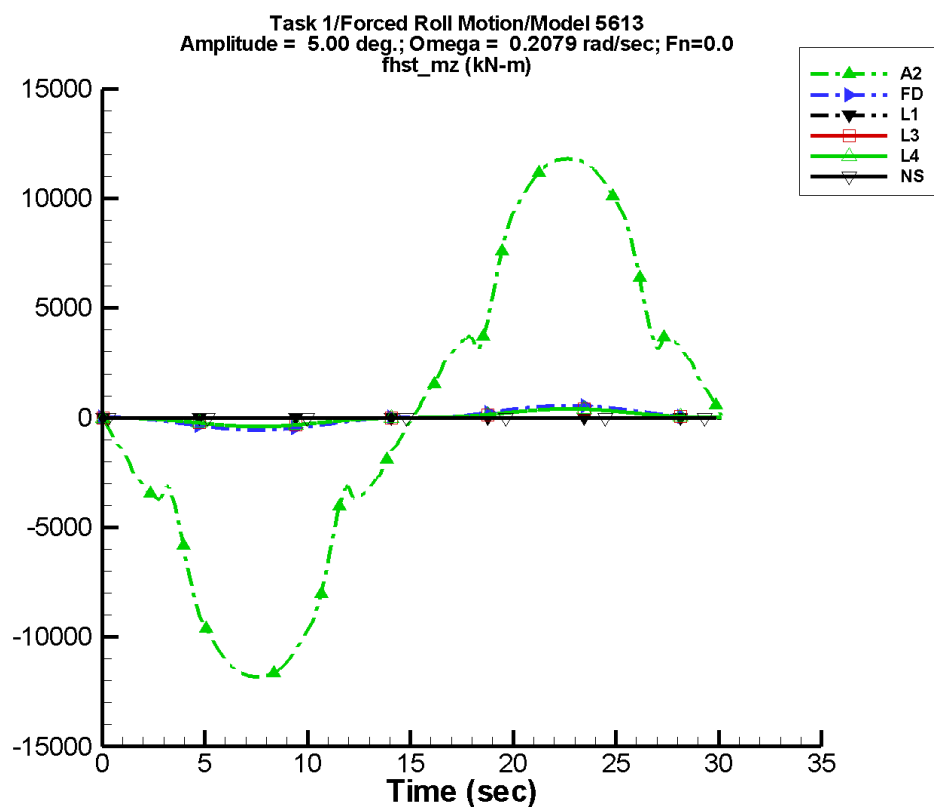
Table C–719. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	3.36E+05	1.20E+04	-33	2.74E+05	-95
FD	1.71E+05	4.41E+03	-29	1.04E+05	-87
L1	1.23E-06	1.38E-02	179	7.45E-04	-125
L3	1.58E+05	1.80E+03	169	1.02E+05	-91
L4	1.58E+05	1.80E+03	169	1.02E+05	-91
NF	—	—	—	—	—
NS	3.26E+05	588.	-180	3.06E+05	-90

Table C–720. Minimum and maximum of M_y^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	75.6	5.53E+05	1.35E+04	5.54E+05
FD	4.16E+03	2.59E+05	1.57E+04	2.49E+05
L1	-1.24E-02	1.24E-02	-1.23E-02	1.23E-02
L3	-1.34E+03	2.43E+05	336.	2.39E+05
L4	-1.34E+03	2.43E+05	336.	2.39E+05
NF	—	—	—	—
NS	-238.	5.97E+05	659.	5.97E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-361. Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

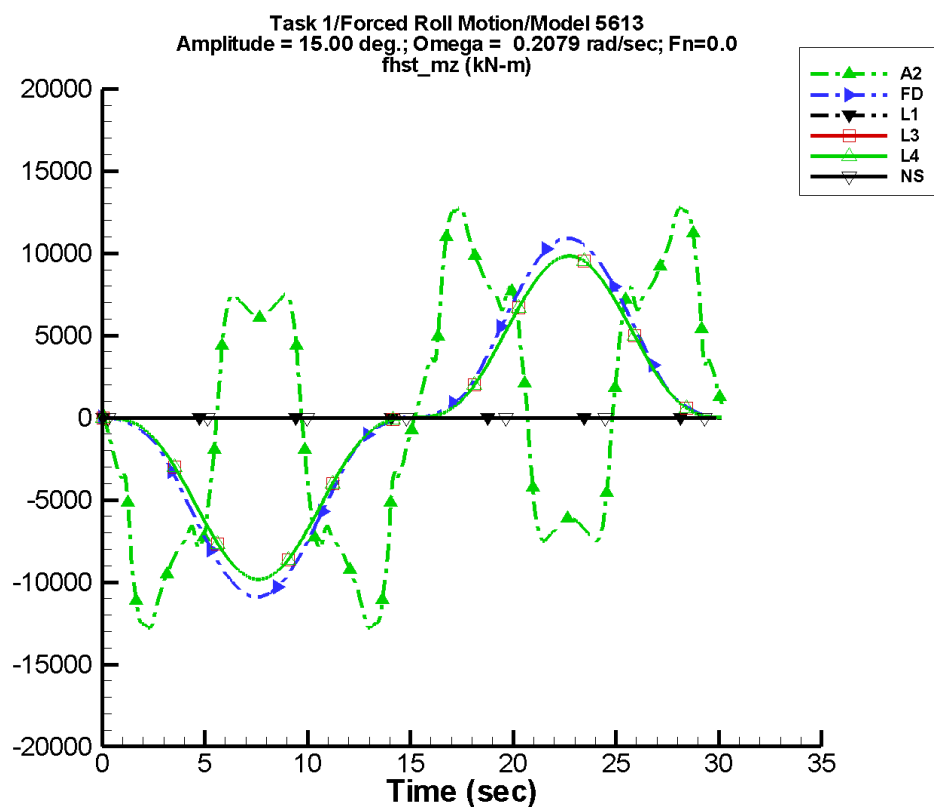
Table C-721. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	35.2	1.03E+04	179	275.	56
FD	4.48	447.	178	20.2	63
L1	8.43E-05	2.00E-09	-58	8.42E-05	-91
L3	5.55	311.	179	21.9	87
L4	5.55	311.	179	21.9	87
NF	—	—	—	—	—
NS	1.90E-03	0.811	0	2.55E-03	-128

Table C-722. Minimum and maximum of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.18E+04	1.18E+04	-1.18E+04	1.18E+04
FD	-555.	555.	-554.	554.
L1	1.77E-10	1.68E-04	1.06E-07	1.68E-04
L3	-404.	404.	-404.	404.
L4	-404.	404.	-404.	404.
NF	—	—	—	—
NS	-0.905	0.900	-0.796	0.801

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-362. Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

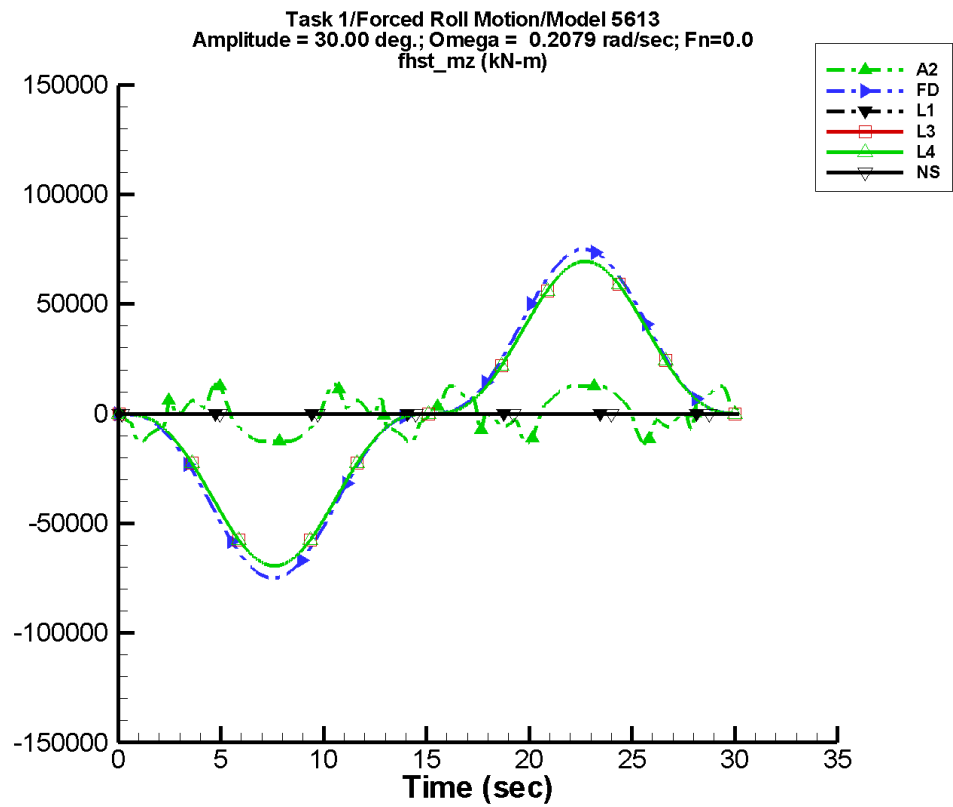
Table C-723. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-249.	2.58E+03	-160	1.57E+03	-125
FD	79.0	8.40E+03	178	394.	58
L1	7.53E-04	1.60E-07	-59	7.50E-04	-91
L3	146.	7.48E+03	179	576.	87
L4	146.	7.48E+03	179	576.	87
NF	—	—	—	—	—
NS	-1.67E-03	1.30E-02	-5	3.16E-03	-87

Table C-724. Minimum and maximum of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.28E+04	1.28E+04	-1.26E+04	1.26E+04
FD	-1.09E+04	1.09E+04	-1.09E+04	1.09E+04
L1	1.59E-09	1.50E-03	9.55E-07	1.50E-03
L3	-9.83E+03	9.83E+03	-9.82E+03	9.82E+03
L4	-9.83E+03	9.83E+03	-9.82E+03	9.82E+03
NF	—	—	—	—
NS	-0.900	0.873	-0.411	0.401

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-363. Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

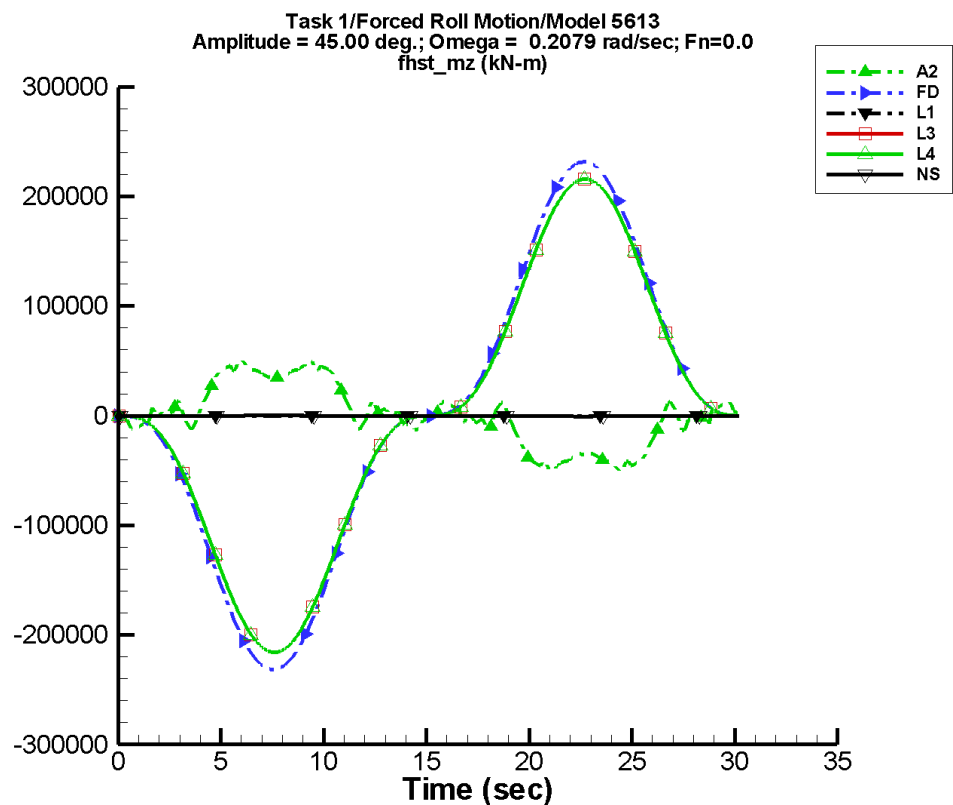
Table C-725. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-147.	3.10E+03	-179	678.	-26
FD	540.	5.78E+04	178	2.67E+03	58
L1	2.93E-03	2.49E-06	-60	2.90E-03	-91
L3	1.02E+03	5.31E+04	179	4.00E+03	87
L4	1.02E+03	5.31E+04	179	4.00E+03	87
NF	—	—	—	—	—
NS	-1.98E-03	1.32E-02	171	1.73E-03	0

Table C-726. Minimum and maximum of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.35E+04	1.35E+04	-1.26E+04	1.25E+04
FD	-7.50E+04	7.50E+04	-7.48E+04	7.48E+04
L1	6.36E-09	5.80E-03	3.83E-06	5.79E-03
L3	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
L4	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
NF	—	—	—	—
NS	-0.921	0.902	-0.294	0.302

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-364. Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

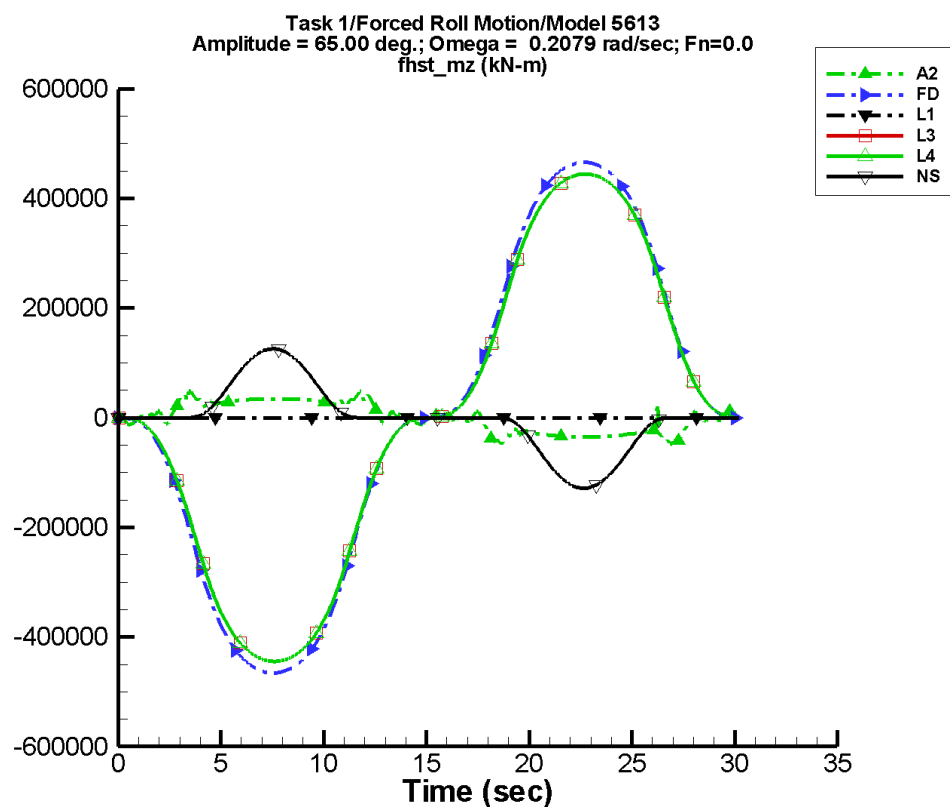
Table C-727. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-489.	3.33E+04	-4	2.66E+03	-116
FD	1.67E+03	1.79E+05	178	8.27E+03	58
L1	6.32E-03	1.22E-05	-60	6.14E-03	-91
L3	3.15E+03	1.66E+05	179	1.24E+04	87
L4	3.15E+03	1.66E+05	179	1.24E+04	87
NF	—	—	—	—	—
NS	8.61	182.	0	16.3	-90

Table C-728. Minimum and maximum of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-5.03E+04	5.04E+04	-4.63E+04	4.62E+04
FD	-2.32E+05	2.32E+05	-2.31E+05	2.31E+05
L1	1.44E-08	1.23E-02	8.62E-06	1.23E-02
L3	-2.16E+05	2.16E+05	-2.16E+05	2.16E+05
L4	-2.16E+05	2.16E+05	-2.16E+05	2.16E+05
NF	—	—	—	—
NS	-682.	795.	-633.	743.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-365. Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

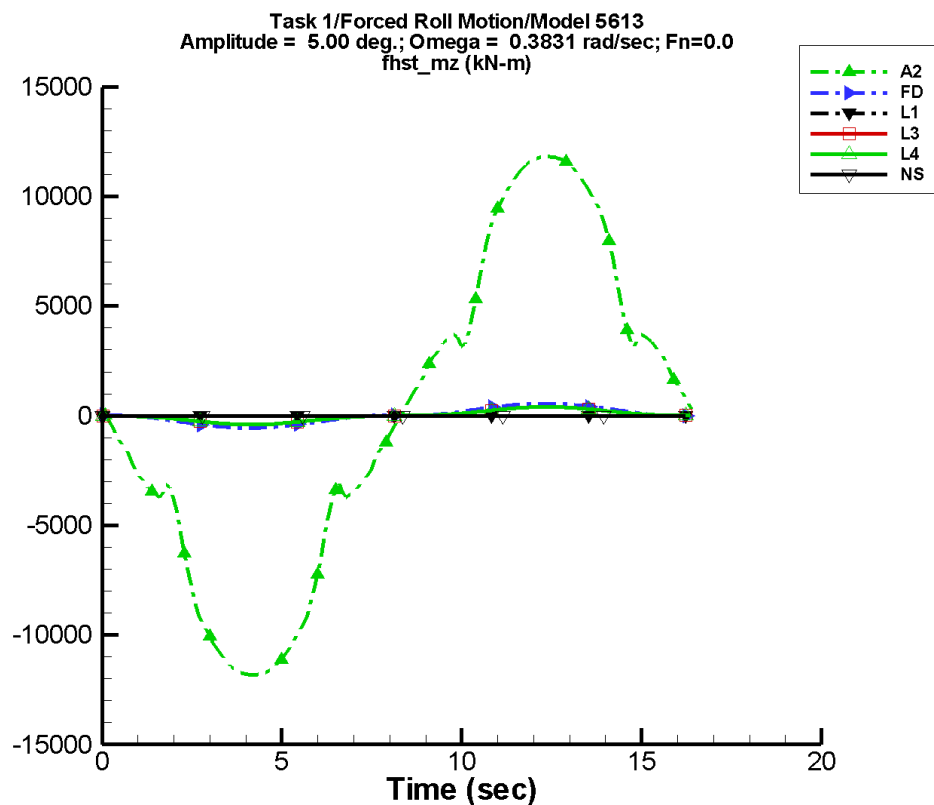
Table C-729. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-156.	3.48E+04	-2	882.	-97
FD	3.15E+03	4.07E+05	179	1.50E+04	65
L1	1.21E-02	5.09E-05	-60	1.13E-02	-91
L3	5.87E+03	3.85E+05	179	2.26E+04	86
L4	5.87E+03	3.85E+05	179	2.26E+04	86
NF	—	—	—	—	—
NS	-612.	6.65E+04	0	909.	90

Table C-730. Minimum and maximum of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.93E+04	4.99E+04	-4.27E+04	4.28E+04
FD	-4.66E+05	4.66E+05	-4.65E+05	4.65E+05
L1	2.99E-08	2.28E-02	1.81E-05	2.28E-02
L3	-4.45E+05	4.45E+05	-4.44E+05	4.44E+05
L4	-4.45E+05	4.45E+05	-4.44E+05	4.44E+05
NF	—	—	—	—
NS	-1.29E+05	1.26E+05	-1.28E+05	1.25E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-366. Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

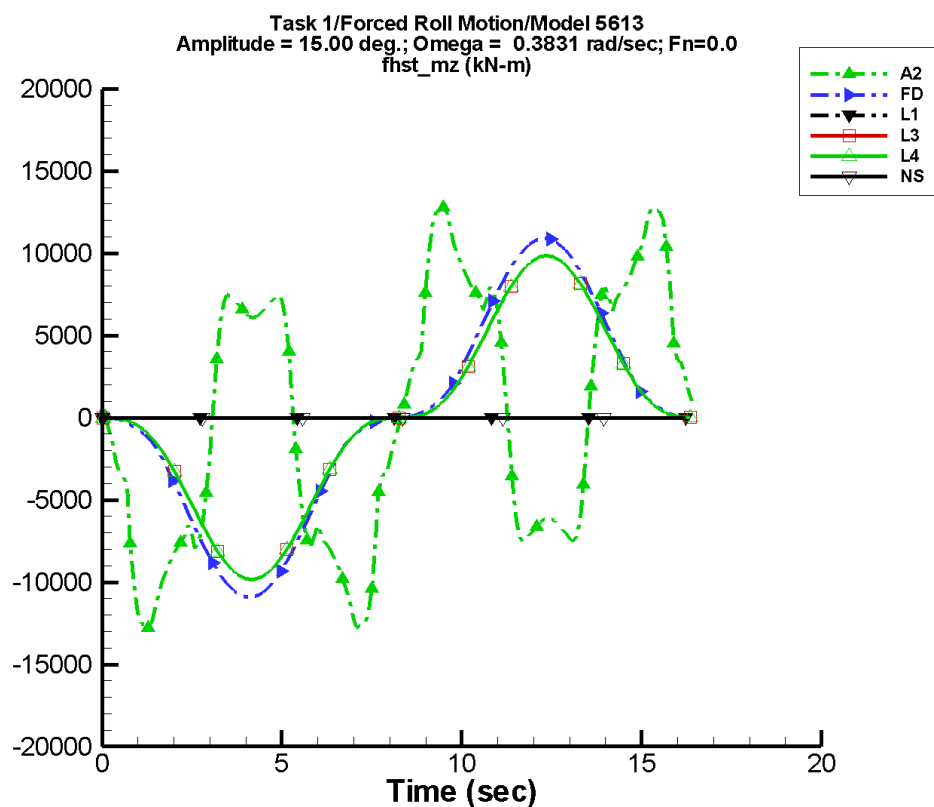
Table C-731. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	32.2	1.03E+04	177	277.	51
FD	4.18	450.	179	26.5	76
L1	8.43E-05	3.05E-09	-23	8.42E-05	-93
L3	7.63	319.	176	13.4	149
L4	7.63	319.	176	13.4	149
NF	—	—	—	—	—
NS	-8.70E-04	0.810	0	1.67E-03	-32

Table C-732. Minimum and maximum of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.18E+04	1.18E+04	-1.18E+04	1.18E+04
FD	-555.	555.	-550.	551.
L1	7.28E-10	1.68E-04	-1.23E-07	1.68E-04
L3	-404.	404.	-403.	403.
L4	-404.	404.	-403.	403.
NF	—	—	—	—
NS	-0.893	0.876	-0.798	0.796

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-367. Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

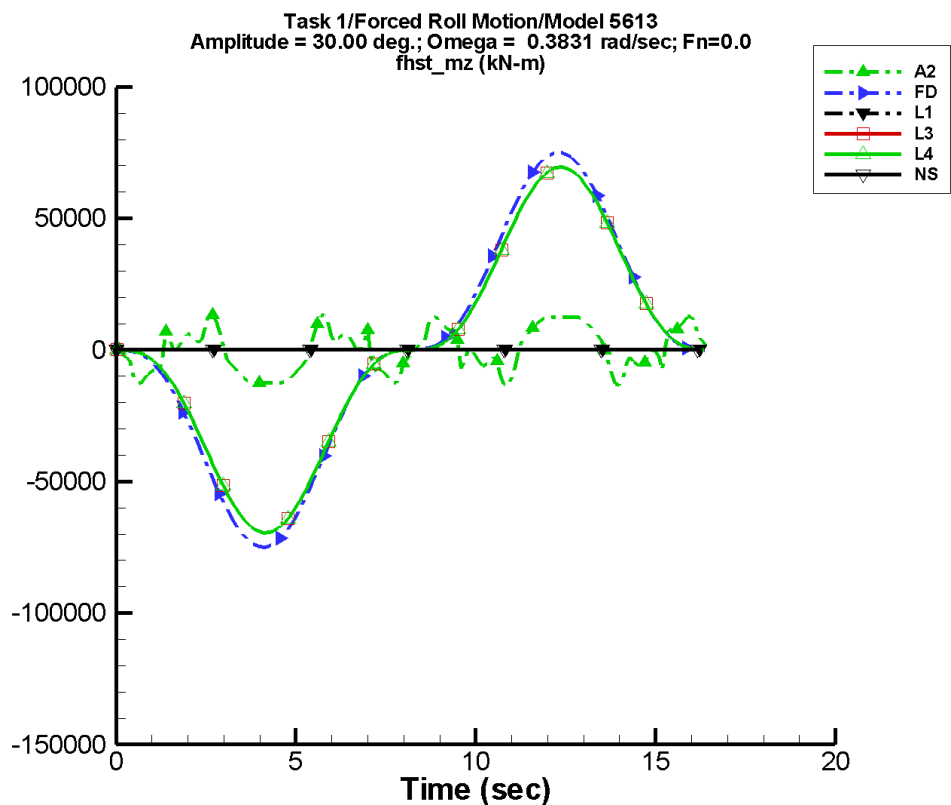
Table C-733. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-220.	2.54E+03	-160	1.63E+03	-126
FD	77.8	8.45E+03	179	532.	76
L1	7.53E-04	1.76E-07	-32	7.50E-04	-93
L3	200.	7.69E+03	176	350.	148
L4	200.	7.69E+03	176	350.	148
NF	—	—	—	—	—
NS	-2.41E-04	1.42E-02	-17	1.76E-03	-11

Table C-734. Minimum and maximum of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.28E+04	1.28E+04	-1.17E+04	1.17E+04
FD	-1.09E+04	1.09E+04	-1.08E+04	1.08E+04
L1	6.55E-09	1.50E-03	-1.08E-06	1.50E-03
L3	-9.83E+03	9.83E+03	-9.79E+03	9.79E+03
L4	-9.83E+03	9.83E+03	-9.79E+03	9.79E+03
NF	—	—	—	—
NS	-0.868	0.851	-0.393	0.404

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-368. Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

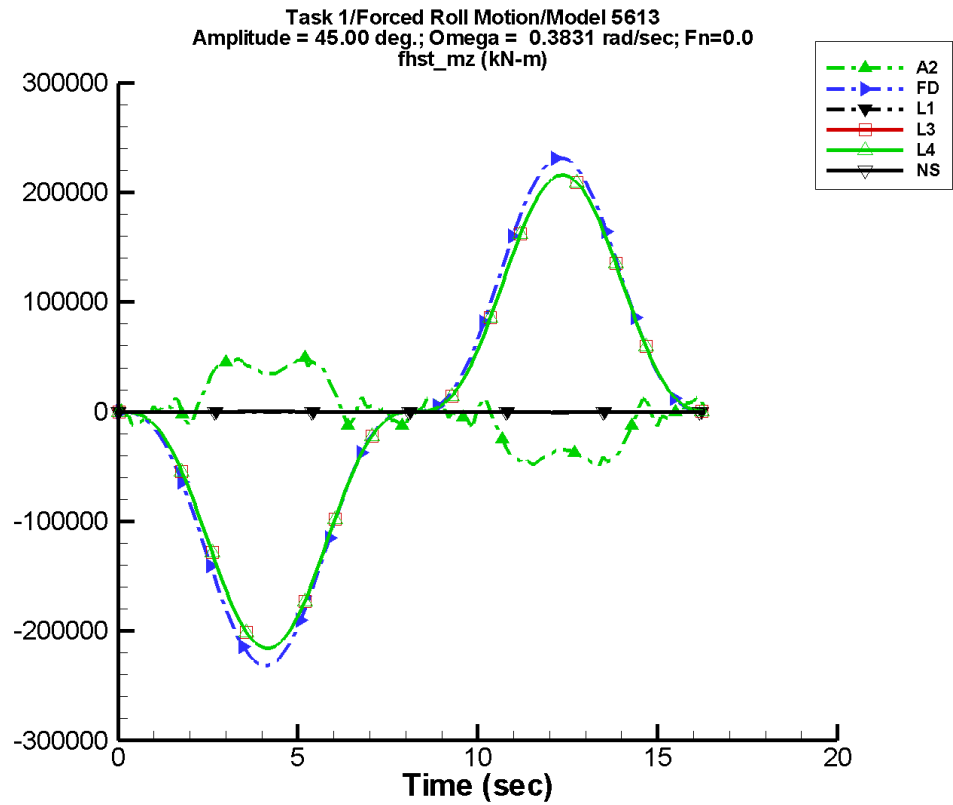
Table C-735. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-181.	3.16E+03	180	661.	-21
FD	538.	5.81E+04	179	3.61E+03	76
L1	2.93E-03	2.70E-06	-32	2.90E-03	-93
L3	1.39E+03	5.46E+04	176	2.44E+03	148
L4	1.39E+03	5.46E+04	176	2.44E+03	148
NF	—	—	—	—	—
NS	-1.96E-03	1.48E-02	179	4.03E-03	142

Table C-736. Minimum and maximum of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.33E+04	1.33E+04	-1.25E+04	1.24E+04
FD	-7.50E+04	7.50E+04	-7.42E+04	7.42E+04
L1	2.62E-08	5.80E-03	-4.03E-06	5.78E-03
L3	-6.95E+04	6.95E+04	-6.92E+04	6.92E+04
L4	-6.95E+04	6.95E+04	-6.92E+04	6.92E+04
NF	—	—	—	—
NS	-0.887	0.914	-0.298	0.297

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-369. Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

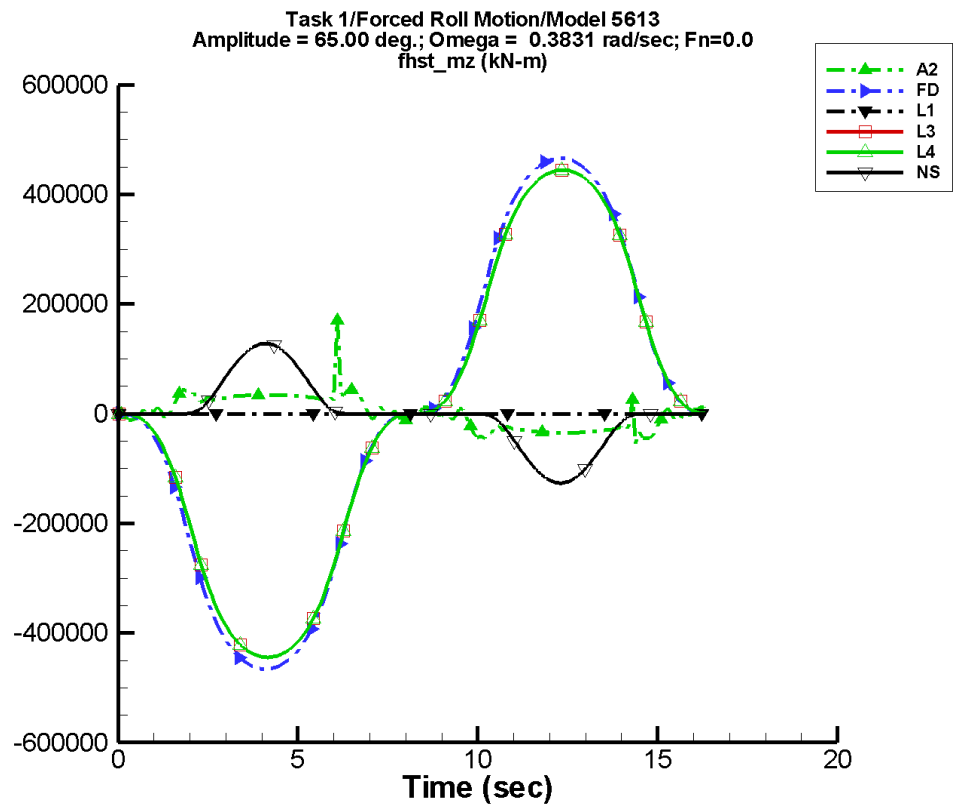
Table C-737. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-477.	3.33E+04	-5	2.65E+03	-117
FD	1.66E+03	1.80E+05	179	1.12E+04	76
L1	6.31E-03	1.33E-05	-33	6.14E-03	-92
L3	4.30E+03	1.70E+05	176	7.55E+03	148
L4	4.30E+03	1.70E+05	176	7.55E+03	148
NF	—	—	—	—	—
NS	8.62	181.	0	16.3	-90

Table C-738. Minimum and maximum of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-5.04E+04	5.04E+04	-4.59E+04	4.59E+04
FD	-2.32E+05	2.32E+05	-2.29E+05	2.29E+05
L1	5.90E-08	1.23E-02	-7.97E-06	1.23E-02
L3	-2.16E+05	2.16E+05	-2.15E+05	2.15E+05
L4	-2.16E+05	2.16E+05	-2.15E+05	2.15E+05
NF	—	—	—	—
NS	-681.	795.	-633.	742.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-370. Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

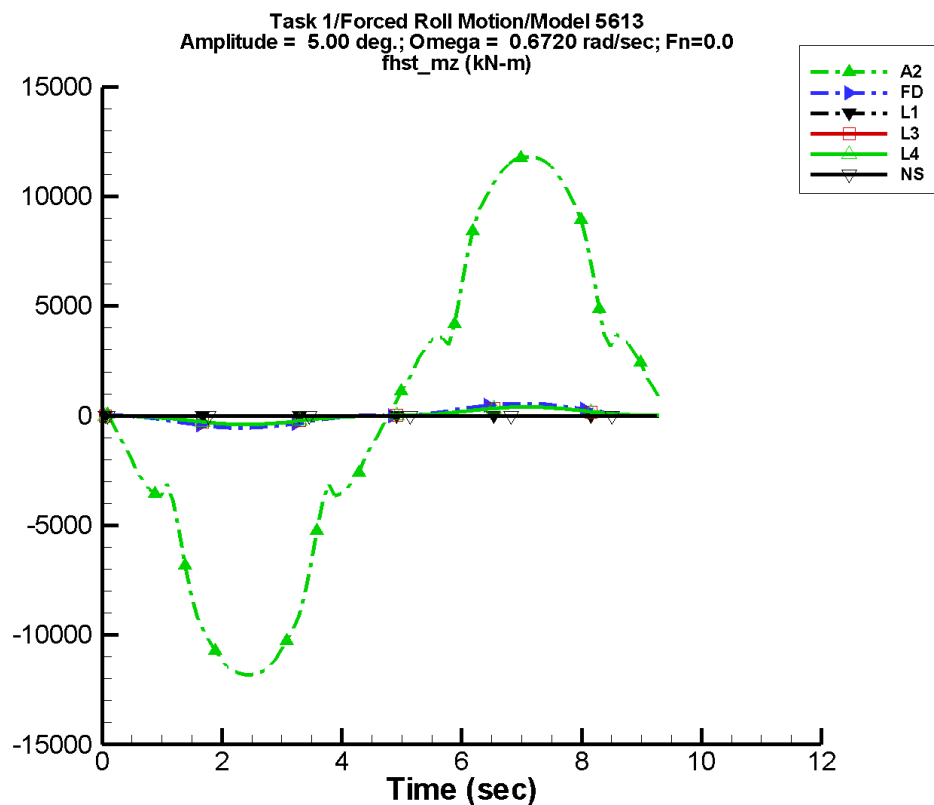
Table C-739. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	803.	3.59E+04	-4	2.17E+03	-162
FD	2.64E+03	4.09E+05	179	1.92E+04	73
L1	1.21E-02	5.46E-05	-33	1.14E-02	-92
L3	7.36E+03	3.92E+05	177	1.35E+04	140
L4	7.36E+03	3.92E+05	177	1.35E+04	140
NF	—	—	—	—	—
NS	191.	6.64E+04	0	342.	-90

Table C-740. Minimum and maximum of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-5.41E+04	1.70E+05	-3.48E+04	5.32E+04
FD	-4.66E+05	4.66E+05	-4.64E+05	4.64E+05
L1	1.23E-07	2.28E-02	-1.23E-05	2.27E-02
L3	-4.44E+05	4.44E+05	-4.44E+05	4.44E+05
L4	-4.44E+05	4.44E+05	-4.44E+05	4.44E+05
NF	—	—	—	—
NS	-1.27E+05	1.28E+05	-1.26E+05	1.27E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-371. Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

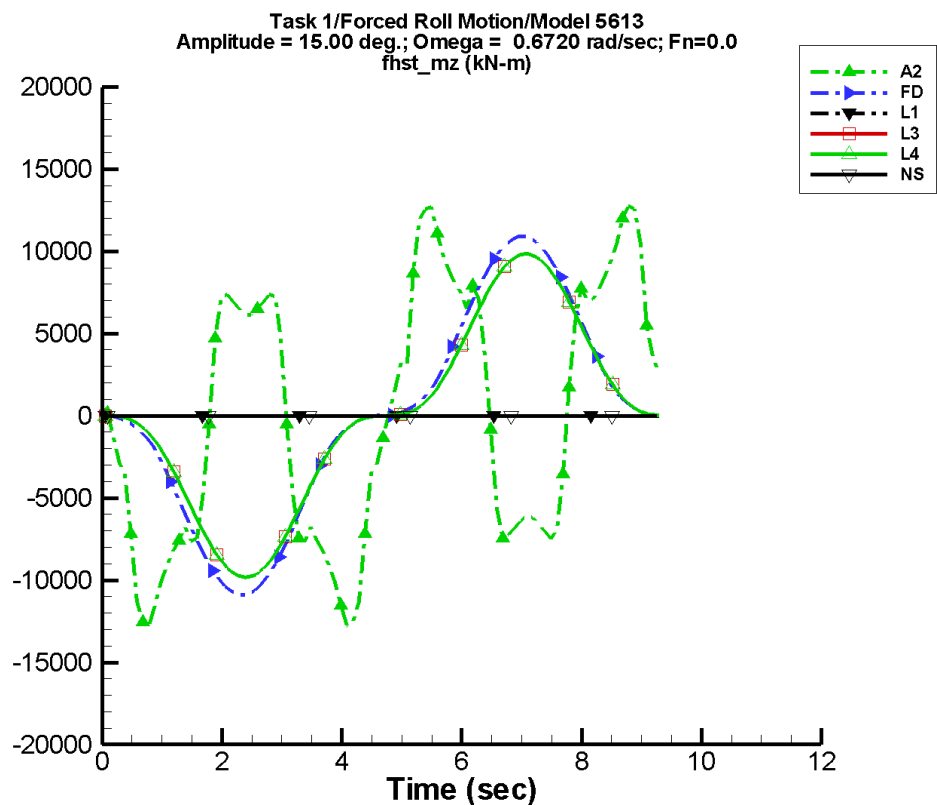
Table C-741. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	84.8	1.02E+04	175	206.	24
FD	10.2	455.	178	19.2	140
L1	8.42E-05	4.15E-09	-1	8.42E-05	-95
L3	-0.214	317.	176	19.4	54
L4	-0.214	317.	176	19.4	54
NF	—	—	—	—	—
NS	1.09E-03	0.811	0	9.63E-04	43

Table C-742. Minimum and maximum of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.18E+04	1.18E+04	-1.17E+04	1.17E+04
FD	-555.	555.	-541.	544.
L1	3.84E-12	1.68E-04	2.20E-08	1.67E-04
L3	-404.	405.	-400.	400.
L4	-404.	405.	-400.	400.
NF	—	—	—	—
NS	-0.874	0.923	-0.792	0.803

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-372. Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

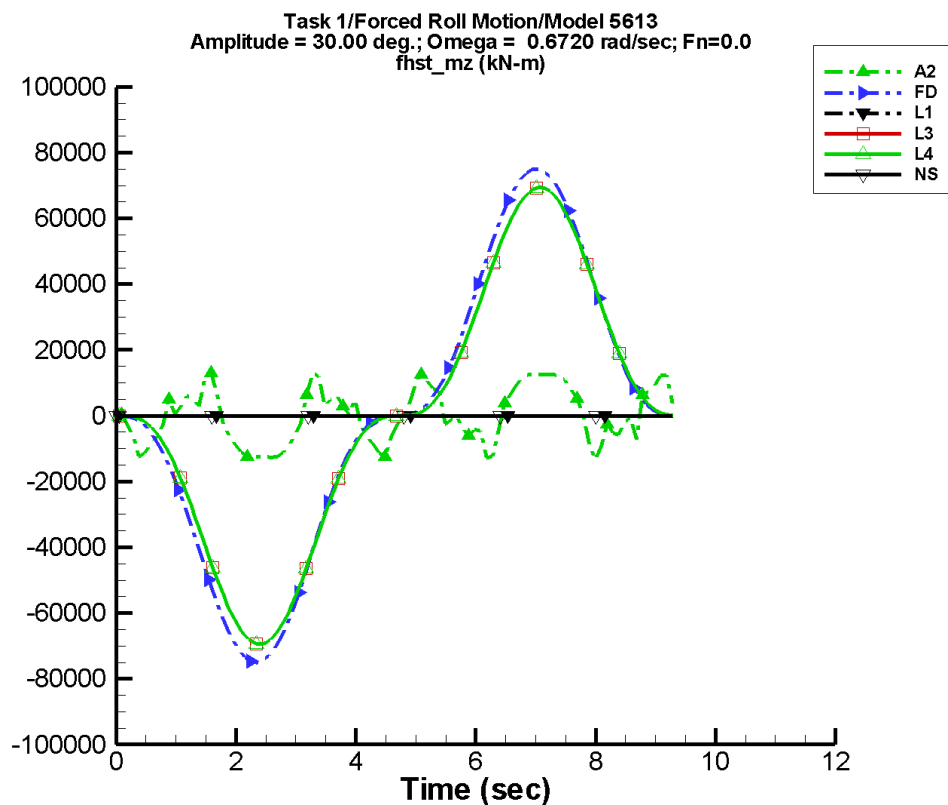
Table C-743. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-570.	3.22E+03	-166	1.16E+03	-157
FD	200.	8.57E+03	178	377.	145
L1	7.52E-04	1.95E-08	149	7.50E-04	-95
L3	-1.85	7.63E+03	176	506.	55
L4	-1.85	7.63E+03	176	506.	55
NF	—	—	—	—	—
NS	-1.94E-03	1.73E-02	-5	3.33E-03	99

Table C-744. Minimum and maximum of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.28E+04	1.28E+04	-1.04E+04	1.03E+04
FD	-1.09E+04	1.09E+04	-1.06E+04	1.07E+04
L1	3.41E-11	1.50E-03	2.43E-07	1.49E-03
L3	-9.83E+03	9.83E+03	-9.72E+03	9.71E+03
L4	-9.83E+03	9.83E+03	-9.72E+03	9.71E+03
NF	—	—	—	—
NS	-0.865	0.858	-0.400	0.407

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-373. Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

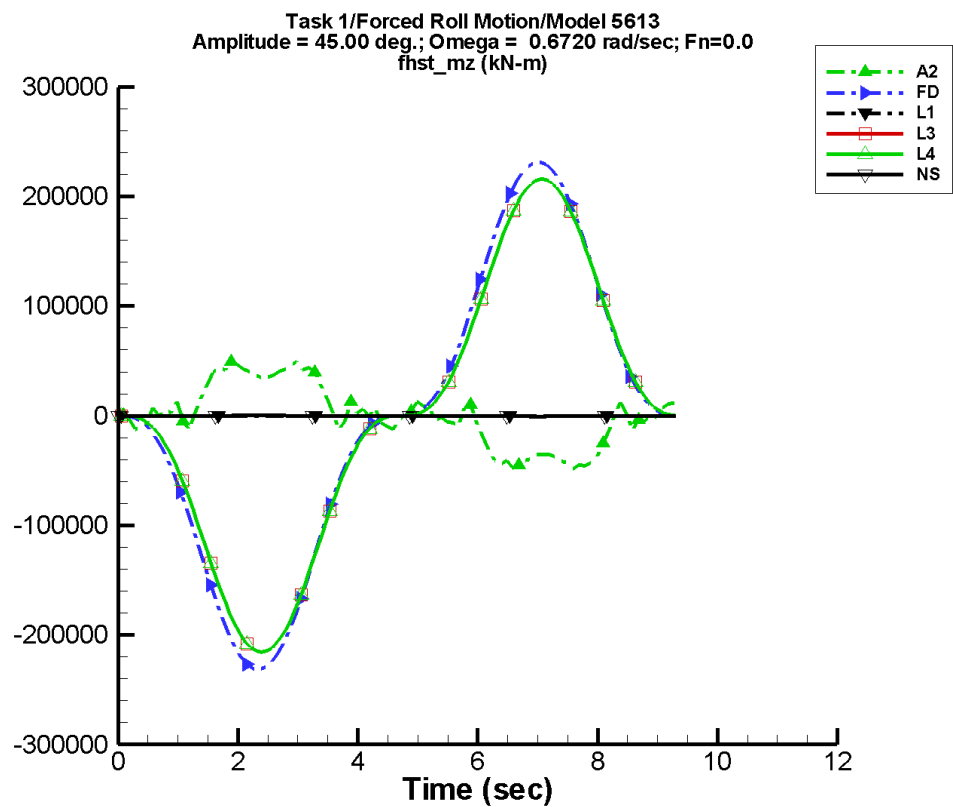
Table C-745. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	173.	2.47E+03	180	1.18E+03	-59
FD	1.37E+03	5.89E+04	178	2.56E+03	145
L1	2.93E-03	8.41E-07	168	2.90E-03	-95
L3	-7.07	5.42E+04	176	3.52E+03	55
L4	-7.07	5.42E+04	176	3.52E+03	55
NF	—	—	—	—	—
NS	1.04E-04	1.24E-02	179	2.17E-03	-74

Table C-746. Minimum and maximum of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.35E+04	1.33E+04	-1.23E+04	1.24E+04
FD	-7.50E+04	7.50E+04	-7.26E+04	7.32E+04
L1	1.37E-10	5.80E-03	1.57E-06	5.75E-03
L3	-6.94E+04	6.94E+04	-6.87E+04	6.86E+04
L4	-6.94E+04	6.94E+04	-6.87E+04	6.86E+04
NF	—	—	—	—
NS	-0.904	0.905	-0.305	0.303

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-374. Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

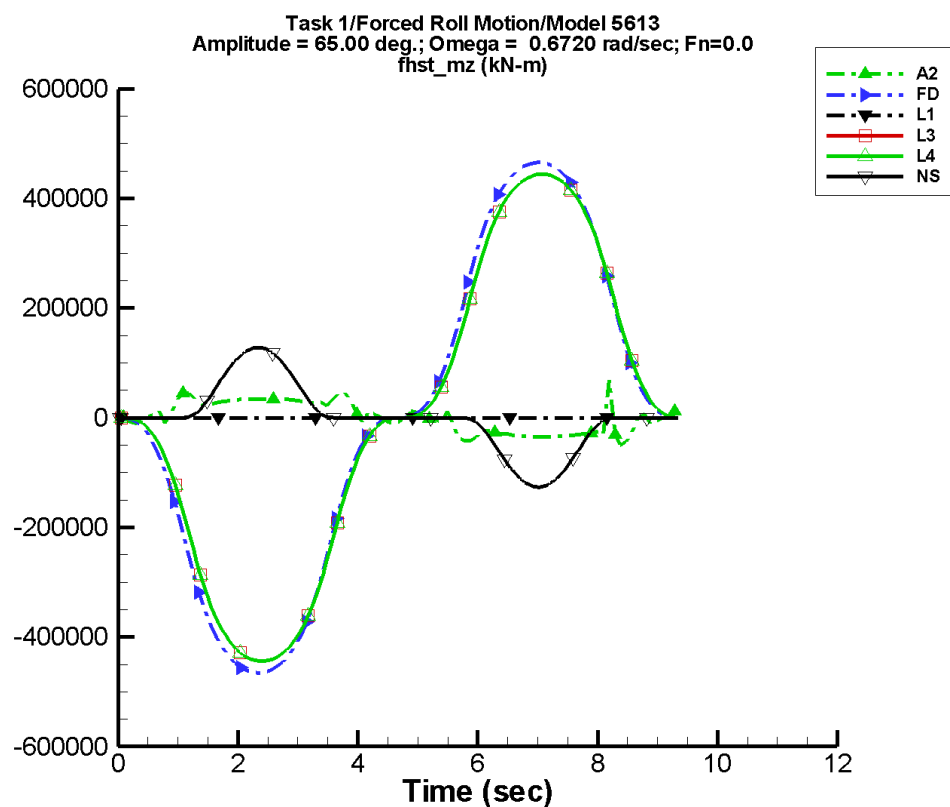
Table C-747. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-704.	3.27E+04	-7	2.12E+03	-131
FD	4.22E+03	1.82E+05	178	7.92E+03	145
L1	6.31E-03	4.64E-06	169	6.14E-03	-94
L3	-16.2	1.69E+05	176	1.09E+04	55
L4	-16.2	1.69E+05	176	1.09E+04	55
NF	—	—	—	—	—
NS	8.61	181.	0	16.3	-90

Table C-748. Minimum and maximum of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.87E+04	4.93E+04	-4.18E+04	4.18E+04
FD	-2.32E+05	2.32E+05	-2.24E+05	2.26E+05
L1	3.07E-10	1.23E-02	5.71E-06	1.22E-02
L3	-2.16E+05	2.16E+05	-2.13E+05	2.13E+05
L4	-2.16E+05	2.16E+05	-2.13E+05	2.13E+05
NF	—	—	—	—
NS	-681.	795.	-633.	742.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-375. Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

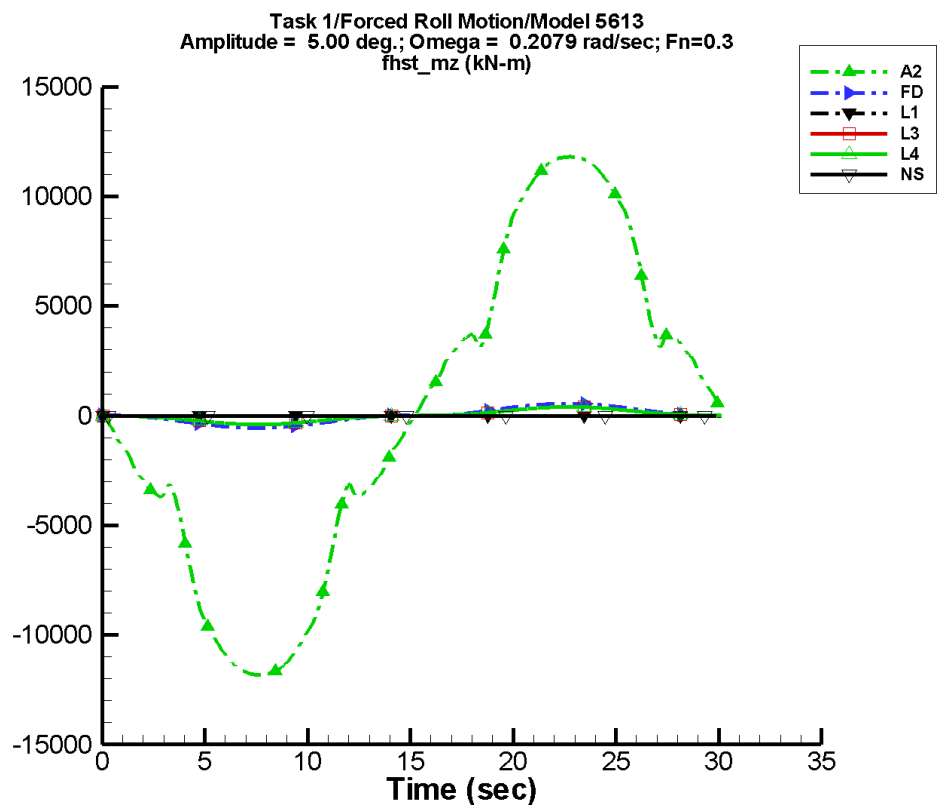
Table C-749. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	786.	3.39E+04	-3	1.89E+03	-148
FD	6.90E+03	4.12E+05	178	1.38E+04	136
L1	1.21E-02	2.00E-05	169	1.14E-02	-94
L3	792.	3.90E+05	176	1.87E+04	58
L4	792.	3.90E+05	176	1.87E+04	58
NF	—	—	—	—	—
NS	192.	6.64E+04	0	337.	-90

Table C-750. Minimum and maximum of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.98E+04	6.84E+04	-3.52E+04	3.44E+04
FD	-4.66E+05	4.66E+05	-4.60E+05	4.62E+05
L1	6.36E-10	2.28E-02	2.05E-05	2.26E-02
L3	-4.44E+05	4.44E+05	-4.42E+05	4.42E+05
L4	-4.44E+05	4.44E+05	-4.42E+05	4.42E+05
NF	—	—	—	—
NS	-1.27E+05	1.28E+05	-1.26E+05	1.27E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-376. Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

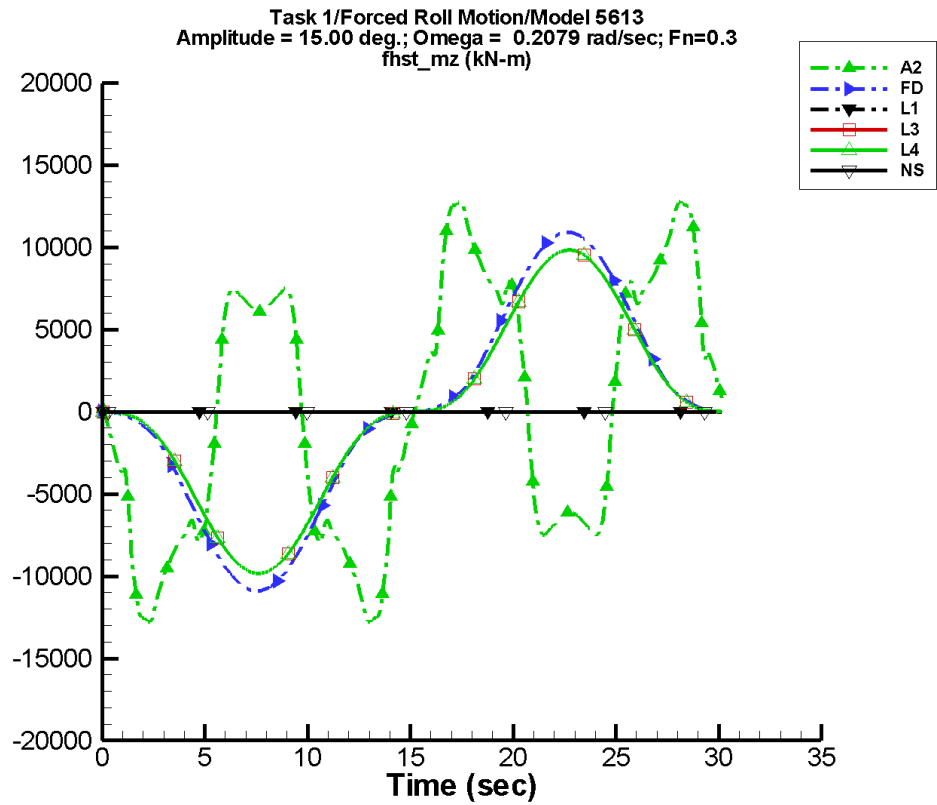
Table C-751. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	37.2	1.03E+04	178	267.	52
FD	4.48	447.	178	20.2	63
L1	8.43E-05	2.00E-09	-58	8.42E-05	-91
L3	5.55	311.	179	22.0	87
L4	5.55	311.	179	22.0	87
NF	—	—	—	—	—
NS	1.90E-03	0.811	0	2.55E-03	-128

Table C-752. Minimum and maximum of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.18E+04	1.18E+04	-1.18E+04	1.18E+04
FD	-555.	555.	-554.	554.
L1	1.77E-10	1.68E-04	1.06E-07	1.68E-04
L3	-405.	405.	-404.	404.
L4	-405.	405.	-404.	404.
NF	—	—	—	—
NS	-0.905	0.900	-0.796	0.801

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-377. Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

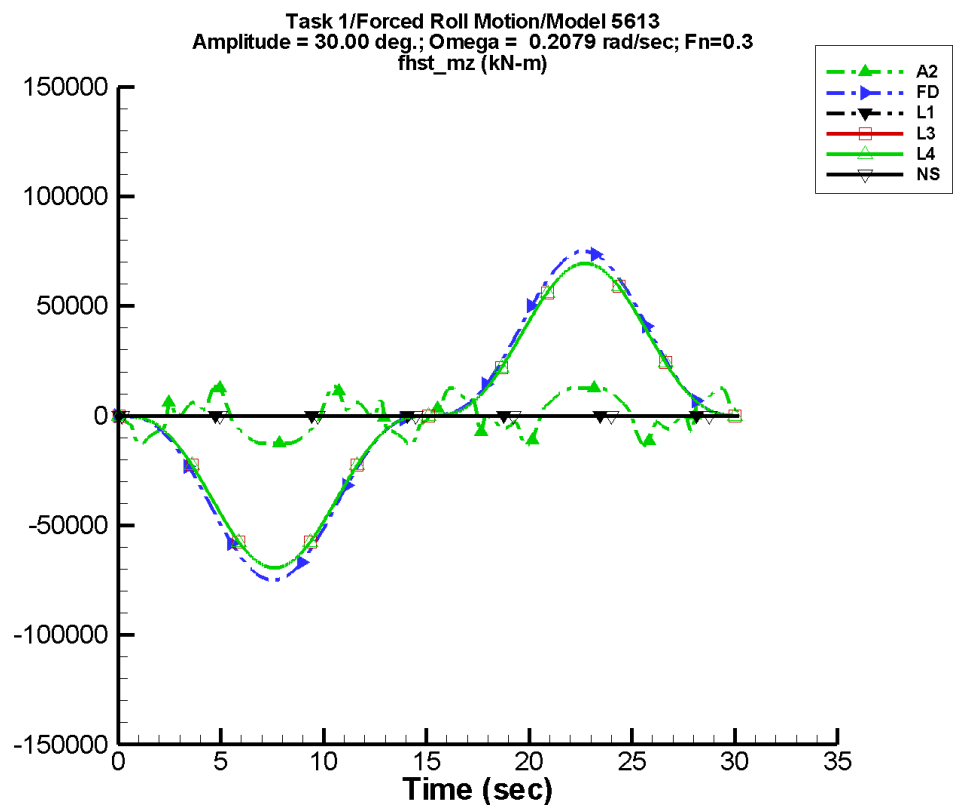
Table C–753. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-249.	2.58E+03	-160	1.57E+03	-125
FD	79.0	8.40E+03	178	394.	58
L1	7.53E-04	1.60E-07	-59	7.50E-04	-91
L3	146.	7.48E+03	179	576.	87
L4	146.	7.48E+03	179	576.	87
NF	—	—	—	—	—
NS	-1.67E-03	1.30E-02	-5	3.16E-03	-87

Table C–754. Minimum and maximum of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.28E+04	1.28E+04	-1.26E+04	1.26E+04
FD	-1.09E+04	1.09E+04	-1.09E+04	1.09E+04
L1	1.59E-09	1.50E-03	9.55E-07	1.50E-03
L3	-9.83E+03	9.83E+03	-9.82E+03	9.82E+03
L4	-9.83E+03	9.83E+03	-9.82E+03	9.82E+03
NF	—	—	—	—
NS	-0.900	0.873	-0.411	0.401

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-378. Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

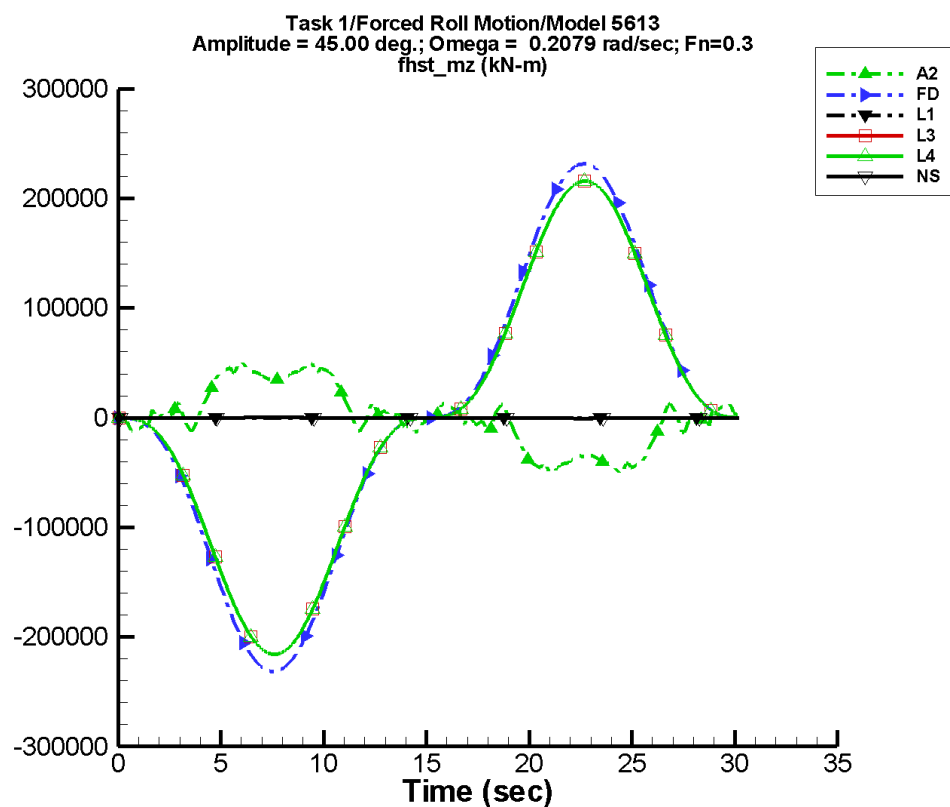
Table C–755. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-147.	3.10E+03	-179	678.	-26
FD	540.	5.78E+04	178	2.67E+03	58
L1	2.93E-03	2.49E-06	-60	2.90E-03	-91
L3	1.02E+03	5.31E+04	179	4.00E+03	87
L4	1.02E+03	5.31E+04	179	4.00E+03	87
NF	—	—	—	—	—
NS	-1.98E-03	1.32E-02	171	1.73E-03	0

Table C–756. Minimum and maximum of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.35E+04	1.35E+04	-1.26E+04	1.25E+04
FD	-7.50E+04	7.50E+04	-7.48E+04	7.48E+04
L1	6.36E-09	5.80E-03	3.83E-06	5.79E-03
L3	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
L4	-6.95E+04	6.95E+04	-6.94E+04	6.94E+04
NF	—	—	—	—
NS	-0.921	0.902	-0.294	0.302

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-379. Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

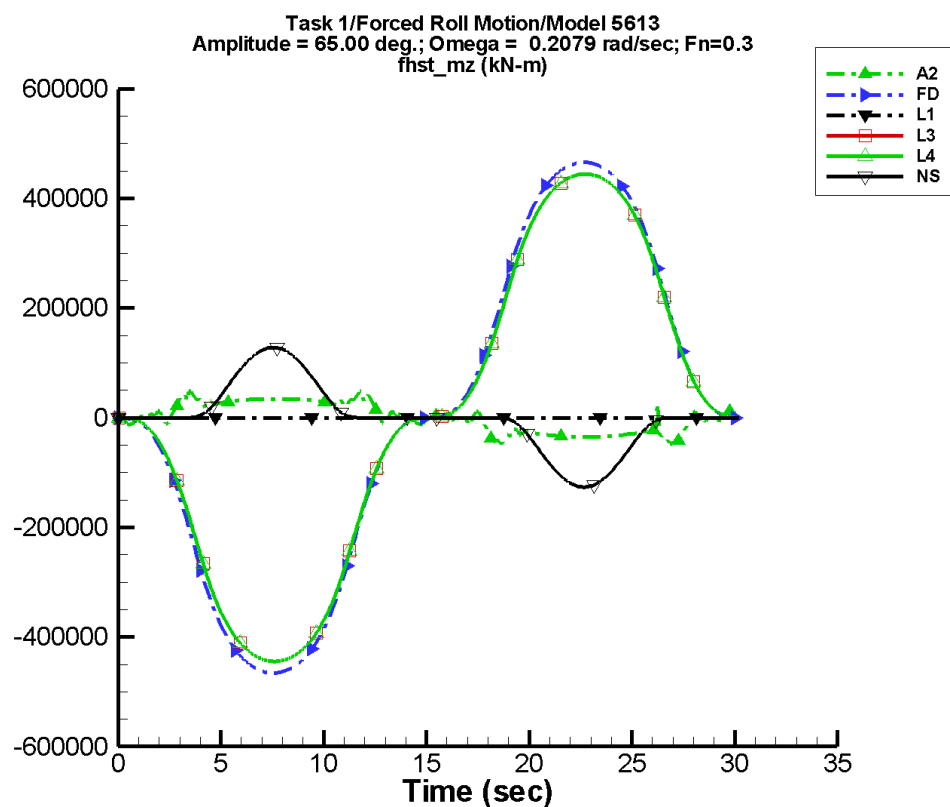
Table C–757. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-489.	3.33E+04	-4	2.66E+03	-116
FD	1.67E+03	1.79E+05	178	8.27E+03	58
L1	6.32E-03	1.22E-05	-60	6.14E-03	-91
L3	3.15E+03	1.66E+05	179	1.24E+04	87
L4	3.15E+03	1.66E+05	179	1.24E+04	87
NF	—	—	—	—	—
NS	8.61	182.	0	16.3	-90

Table C–758. Minimum and maximum of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-5.03E+04	5.04E+04	-4.63E+04	4.62E+04
FD	-2.32E+05	2.32E+05	-2.31E+05	2.31E+05
L1	1.44E-08	1.23E-02	8.62E-06	1.23E-02
L3	-2.16E+05	2.16E+05	-2.16E+05	2.16E+05
L4	-2.16E+05	2.16E+05	-2.16E+05	2.16E+05
NF	—	—	—	—
NS	-682.	795.	-633.	743.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-380. Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

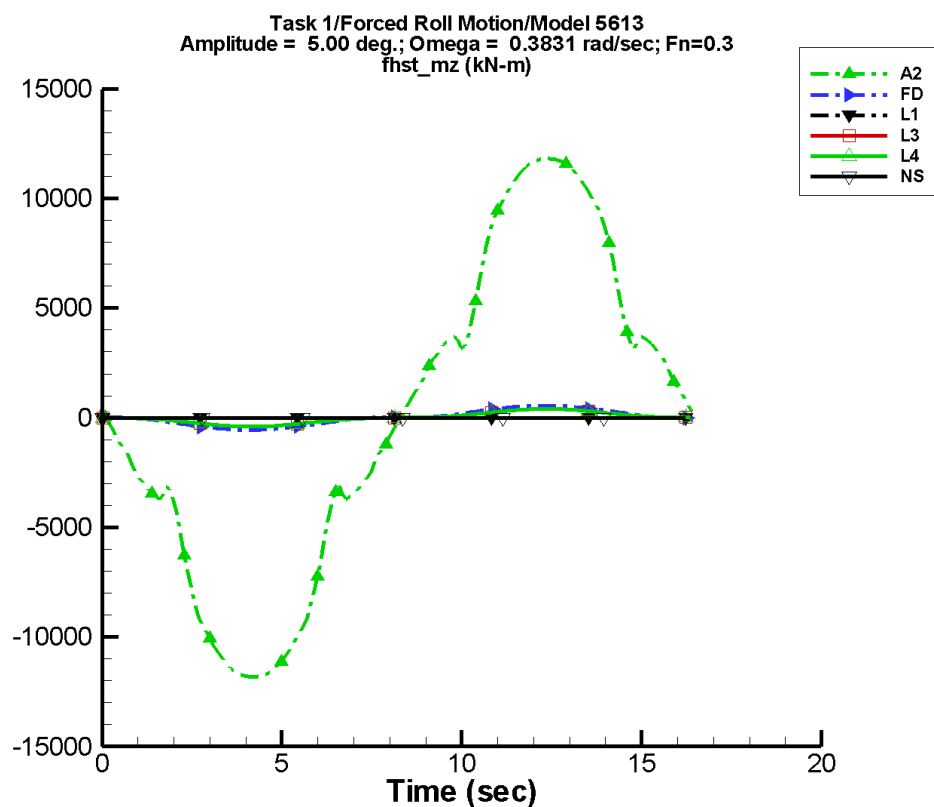
Table C-759. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-156.	3.48E+04	-2	882.	-97
FD	3.15E+03	4.07E+05	179	1.50E+04	65
L1	1.21E-02	5.09E-05	-60	1.13E-02	-91
L3	5.87E+03	3.85E+05	179	2.26E+04	86
L4	5.87E+03	3.85E+05	179	2.26E+04	86
NF	—	—	—	—	—
NS	194.	6.64E+04	0	340.	-90

Table C-760. Minimum and maximum of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.93E+04	4.99E+04	-4.27E+04	4.28E+04
FD	-4.66E+05	4.66E+05	-4.65E+05	4.65E+05
L1	2.99E-08	2.28E-02	1.81E-05	2.28E-02
L3	-4.45E+05	4.45E+05	-4.44E+05	4.44E+05
L4	-4.45E+05	4.45E+05	-4.44E+05	4.44E+05
NF	—	—	—	—
NS	-1.27E+05	1.28E+05	-1.26E+05	1.27E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-381. Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

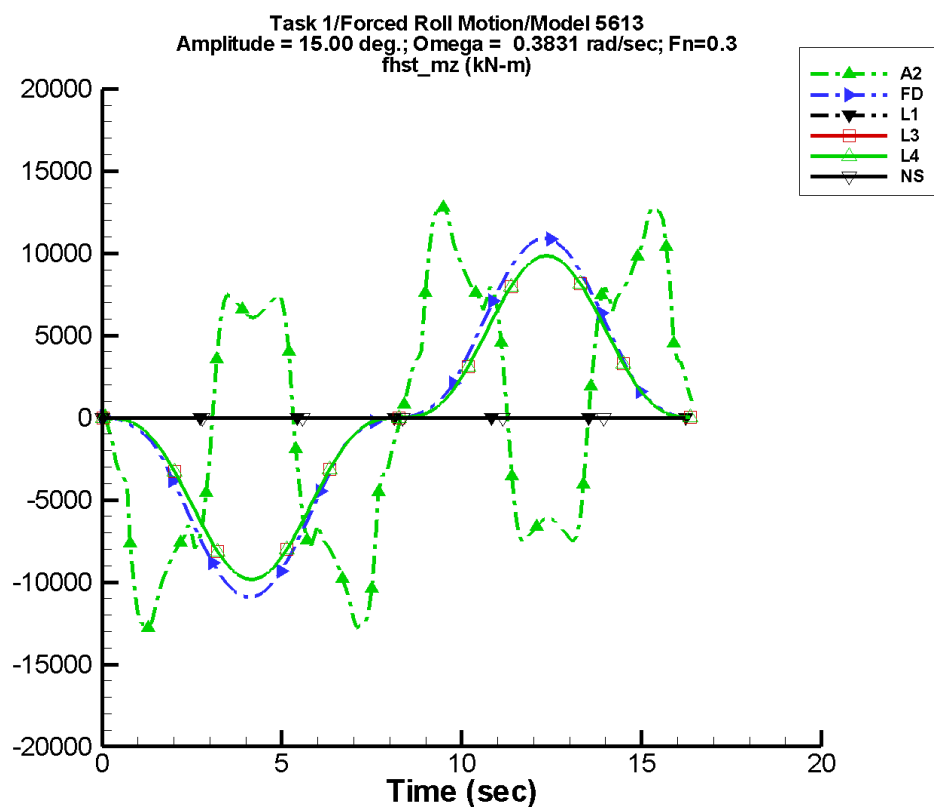
Table C-761. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	32.2	1.03E+04	177	277.	51
FD	4.18	450.	179	26.5	76
L1	8.43E-05	3.05E-09	-23	8.42E-05	-93
L3	7.62	319.	176	13.4	149
L4	7.62	319.	176	13.4	149
NF	—	—	—	—	—
NS	-8.70E-04	0.810	0	1.67E-03	-32

Table C-762. Minimum and maximum of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.18E+04	1.18E+04	-1.18E+04	1.18E+04
FD	-555.	555.	-551.	551.
L1	7.28E-10	1.68E-04	-1.23E-07	1.68E-04
L3	-405.	405.	-403.	403.
L4	-405.	405.	-403.	403.
NF	—	—	—	—
NS	-0.893	0.876	-0.798	0.796

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-382. Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

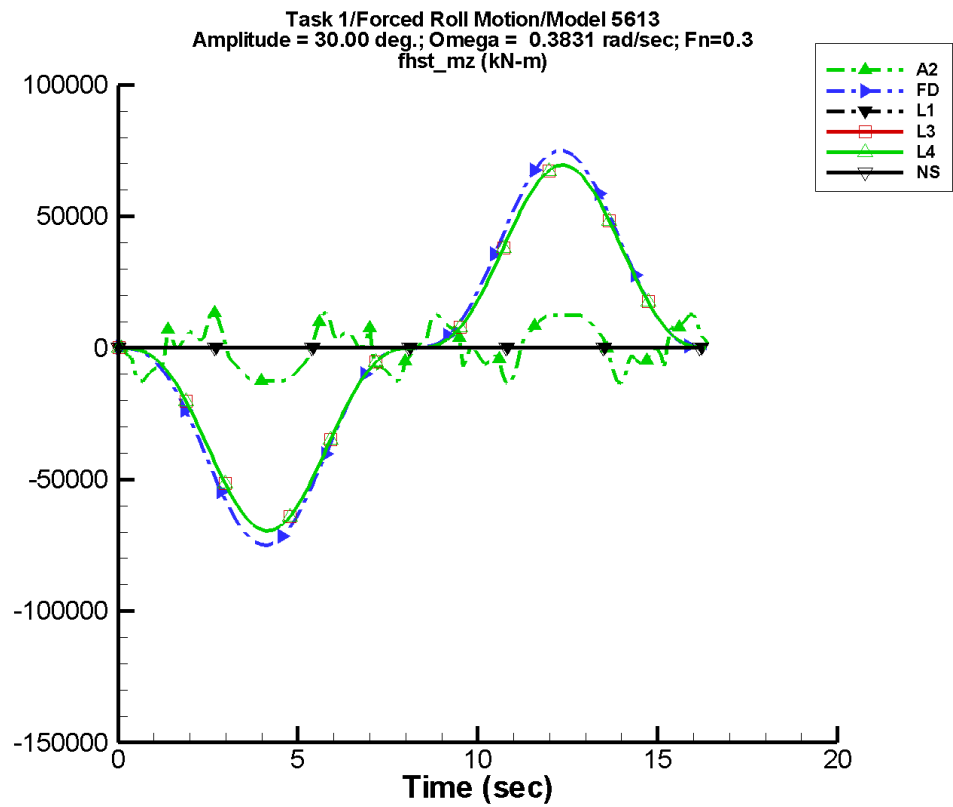
Table C-763. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-220.	2.54E+03	-160	1.63E+03	-126
FD	77.8	8.45E+03	179	532.	76
L1	7.53E-04	1.76E-07	-32	7.50E-04	-93
L3	200.	7.69E+03	176	350.	148
L4	200.	7.69E+03	176	350.	148
NF	—	—	—	—	—
NS	-2.41E-04	1.42E-02	-17	1.76E-03	-11

Table C-764. Minimum and maximum of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.28E+04	1.28E+04	-1.17E+04	1.17E+04
FD	-1.09E+04	1.09E+04	-1.08E+04	1.08E+04
L1	6.55E-09	1.50E-03	-1.08E-06	1.50E-03
L3	-9.83E+03	9.83E+03	-9.79E+03	9.79E+03
L4	-9.83E+03	9.83E+03	-9.79E+03	9.79E+03
NF	—	—	—	—
NS	-0.868	0.851	-0.393	0.404

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-383. Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

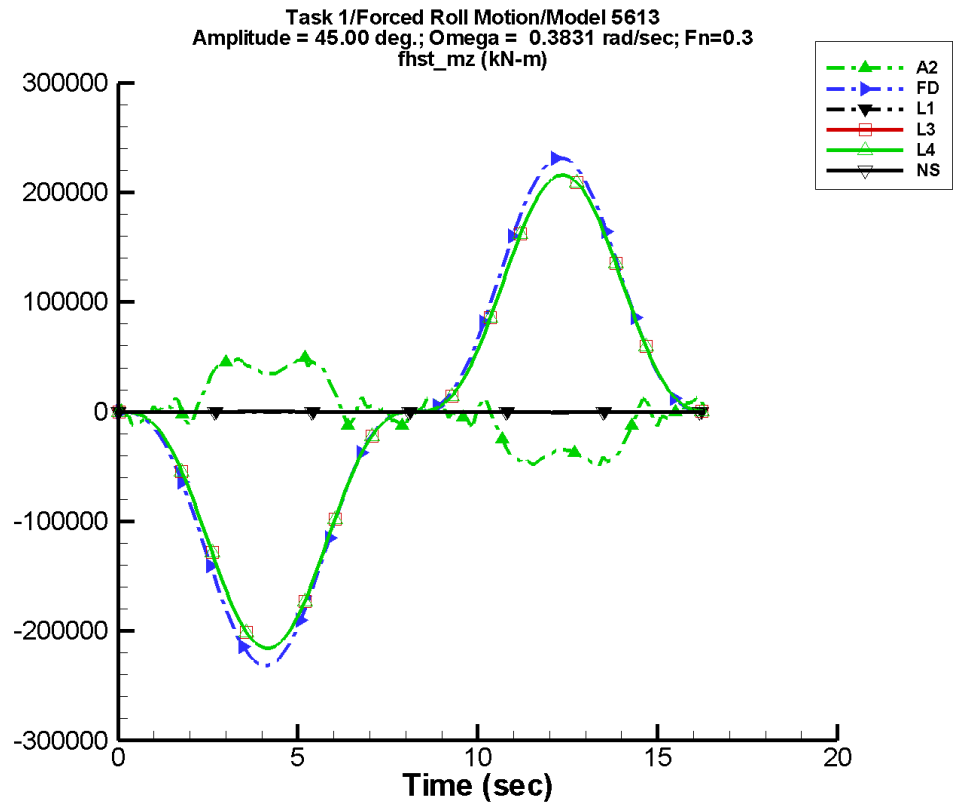
Table C-765. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-181.	3.16E+03	180	661.	-21
FD	538.	5.81E+04	179	3.61E+03	76
L1	2.93E-03	2.70E-06	-32	2.90E-03	-93
L3	1.39E+03	5.46E+04	176	2.44E+03	148
L4	1.39E+03	5.46E+04	176	2.44E+03	148
NF	—	—	—	—	—
NS	-1.96E-03	1.48E-02	179	4.03E-03	142

Table C-766. Minimum and maximum of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.33E+04	1.33E+04	-1.25E+04	1.24E+04
FD	-7.50E+04	7.50E+04	-7.42E+04	7.42E+04
L1	2.62E-08	5.80E-03	-4.03E-06	5.78E-03
L3	-6.95E+04	6.95E+04	-6.92E+04	6.92E+04
L4	-6.95E+04	6.95E+04	-6.92E+04	6.92E+04
NF	—	—	—	—
NS	-0.887	0.914	-0.298	0.297

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-384. Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

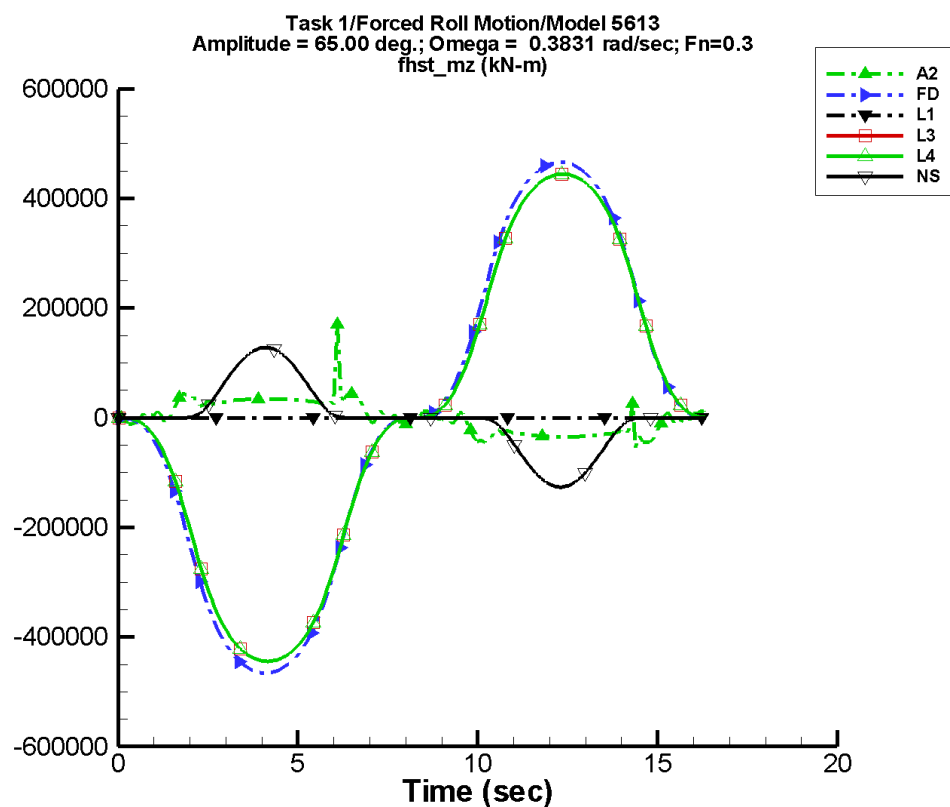
Table C-767. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-477.	3.33E+04	-5	2.65E+03	-117
FD	1.66E+03	1.80E+05	179	1.12E+04	76
L1	6.31E-03	1.33E-05	-33	6.14E-03	-92
L3	4.30E+03	1.70E+05	176	7.55E+03	148
L4	4.30E+03	1.70E+05	176	7.55E+03	148
NF	—	—	—	—	—
NS	8.62	181.	0	16.3	-90

Table C-768. Minimum and maximum of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-5.04E+04	5.04E+04	-4.59E+04	4.59E+04
FD	-2.32E+05	2.32E+05	-2.29E+05	2.29E+05
L1	5.90E-08	1.23E-02	-7.97E-06	1.23E-02
L3	-2.16E+05	2.16E+05	-2.15E+05	2.15E+05
L4	-2.16E+05	2.16E+05	-2.15E+05	2.15E+05
NF	—	—	—	—
NS	-681.	795.	-633.	742.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-385. Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

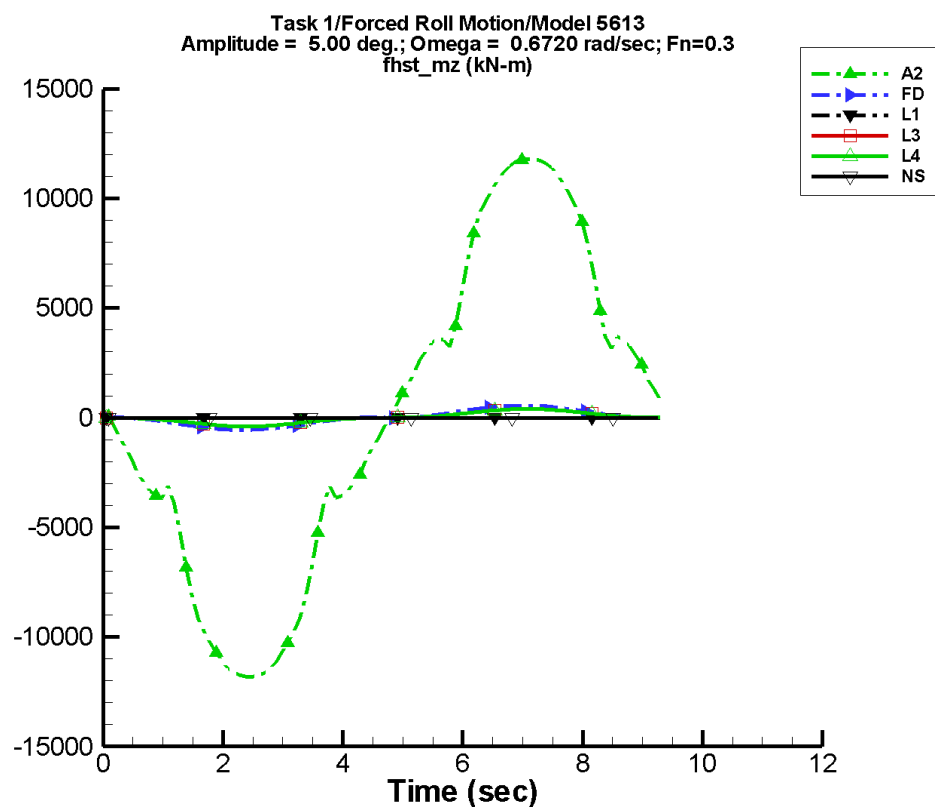
Table C-769. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	803.	3.59E+04	-4	2.17E+03	-162
FD	2.64E+03	4.09E+05	179	1.92E+04	73
L1	1.21E-02	5.46E-05	-33	1.14E-02	-92
L3	7.36E+03	3.92E+05	177	1.35E+04	140
L4	7.36E+03	3.92E+05	177	1.35E+04	140
NF	—	—	—	—	—
NS	191.	6.64E+04	0	342.	-90

Table C-770. Minimum and maximum of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-5.41E+04	1.70E+05	-3.48E+04	5.32E+04
FD	-4.66E+05	4.66E+05	-4.64E+05	4.64E+05
L1	1.23E-07	2.28E-02	-1.23E-05	2.27E-02
L3	-4.44E+05	4.44E+05	-4.44E+05	4.44E+05
L4	-4.44E+05	4.44E+05	-4.44E+05	4.44E+05
NF	—	—	—	—
NS	-1.27E+05	1.28E+05	-1.26E+05	1.27E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-386. Time history of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

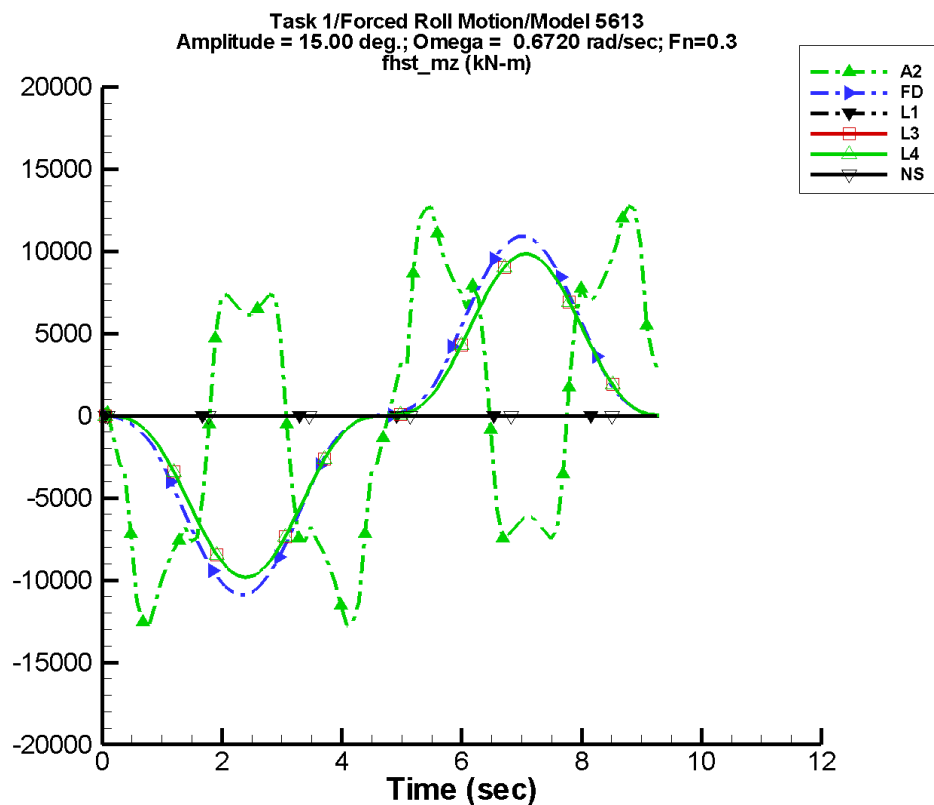
Table C-771. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	84.8	1.02E+04	175	206.	24
FD	10.2	455.	178	19.2	140
L1	8.42E-05	4.15E-09	-1	8.42E-05	-95
L3	-0.278	317.	176	19.4	54
L4	-0.278	317.	176	19.4	54
NF	—	—	—	—	—
NS	1.09E-03	0.811	0	9.63E-04	43

Table C-772. Minimum and maximum of M_z^{hst} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.18E+04	1.18E+04	-1.17E+04	1.17E+04
FD	-555.	555.	-541.	544.
L1	3.84E-12	1.68E-04	2.20E-08	1.67E-04
L3	-404.	404.	-400.	399.
L4	-404.	404.	-400.	399.
NF	—	—	—	—
NS	-0.874	0.923	-0.792	0.803

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-387. Time history of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

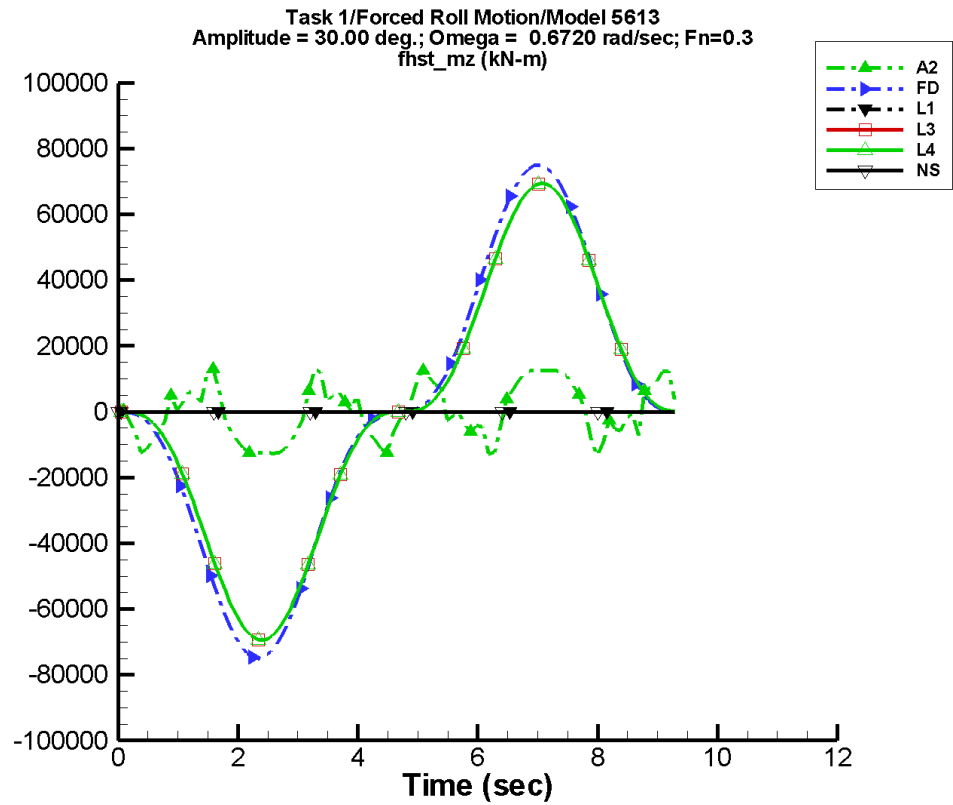
Table C-773. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-570.	3.22E+03	-166	1.16E+03	-157
FD	200.	8.57E+03	178	377.	145
L1	7.52E-04	1.95E-08	149	7.50E-04	-95
L3	-1.93	7.63E+03	176	506.	55
L4	-1.93	7.63E+03	176	506.	55
NF	—	—	—	—	—
NS	-1.94E-03	1.73E-02	-5	3.33E-03	99

Table C-774. Minimum and maximum of M_z^{hst} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.28E+04	1.28E+04	-1.04E+04	1.03E+04
FD	-1.09E+04	1.09E+04	-1.06E+04	1.07E+04
L1	3.41E-11	1.50E-03	2.43E-07	1.49E-03
L3	-9.83E+03	9.83E+03	-9.72E+03	9.71E+03
L4	-9.83E+03	9.83E+03	-9.72E+03	9.71E+03
NF	—	—	—	—
NS	-0.865	0.858	-0.400	0.407

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-388. Time history of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

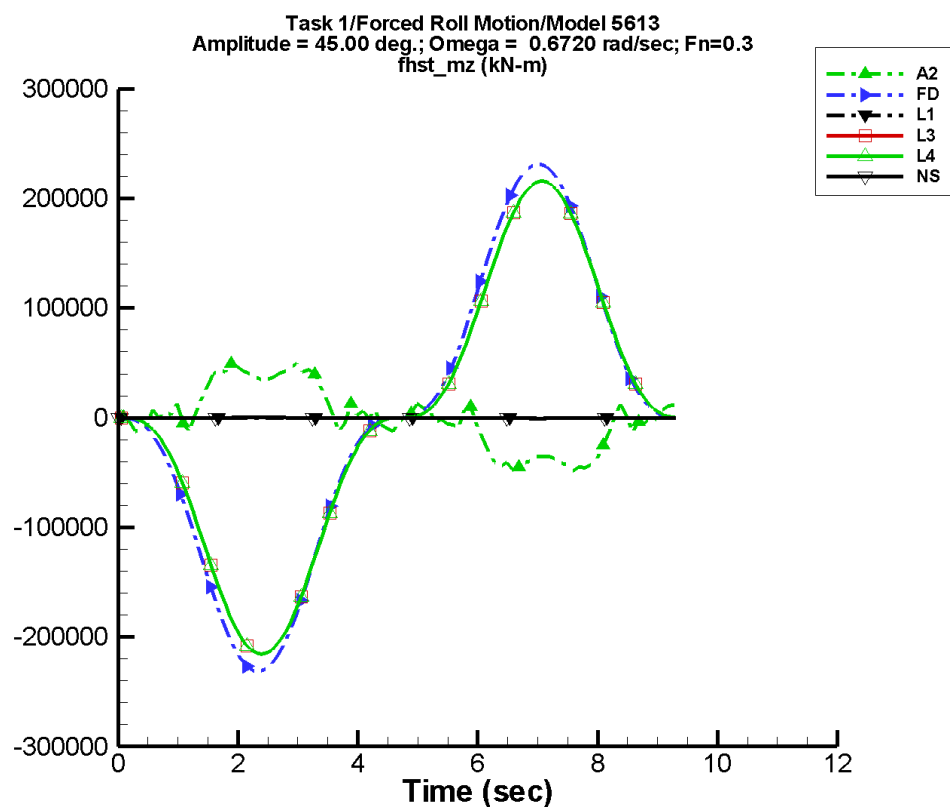
Table C-775. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	173.	2.47E+03	180	1.18E+03	-59
FD	1.37E+03	5.89E+04	178	2.56E+03	145
L1	2.93E-03	8.41E-07	168	2.90E-03	-95
L3	-7.09	5.42E+04	176	3.52E+03	55
L4	-7.09	5.42E+04	176	3.52E+03	55
NF	—	—	—	—	—
NS	1.04E-04	1.24E-02	179	2.17E-03	-74

Table C-776. Minimum and maximum of M_z^{hst} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-1.35E+04	1.33E+04	-1.23E+04	1.24E+04
FD	-7.50E+04	7.50E+04	-7.26E+04	7.32E+04
L1	1.37E-10	5.80E-03	1.57E-06	5.75E-03
L3	-6.94E+04	6.94E+04	-6.87E+04	6.86E+04
L4	-6.94E+04	6.94E+04	-6.87E+04	6.86E+04
NF	—	—	—	—
NS	-0.904	0.905	-0.305	0.303

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-389. Time history of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

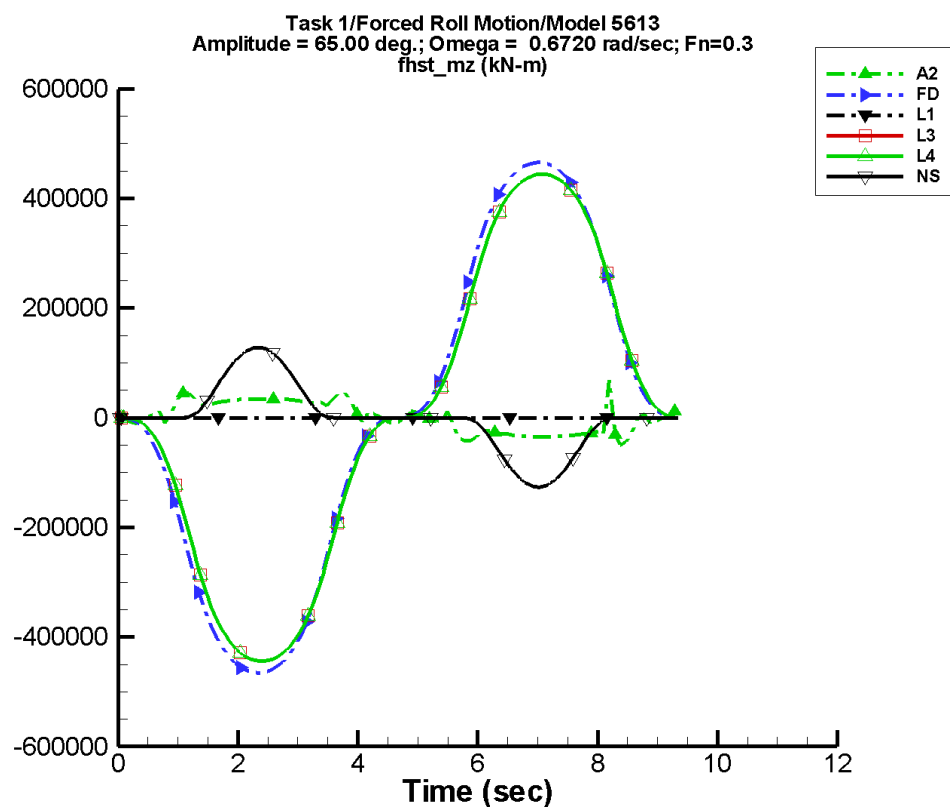
Table C-777. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	-704.	3.27E+04	-7	2.12E+03	-131
FD	4.22E+03	1.82E+05	178	7.92E+03	145
L1	6.31E-03	4.64E-06	169	6.14E-03	-94
L3	-16.2	1.69E+05	176	1.09E+04	55
L4	-16.2	1.69E+05	176	1.09E+04	55
NF	—	—	—	—	—
NS	8.61	181.	0	16.3	-90

Table C-778. Minimum and maximum of M_z^{hst} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.87E+04	4.93E+04	-4.18E+04	4.18E+04
FD	-2.32E+05	2.32E+05	-2.24E+05	2.26E+05
L1	3.07E-10	1.23E-02	5.71E-06	1.22E-02
L3	-2.16E+05	2.16E+05	-2.13E+05	2.13E+05
L4	-2.16E+05	2.16E+05	-2.13E+05	2.13E+05
NF	—	—	—	—
NS	-681.	795.	-633.	742.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from AEGIR-1 and NFA.

Figure C-390. Time history of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

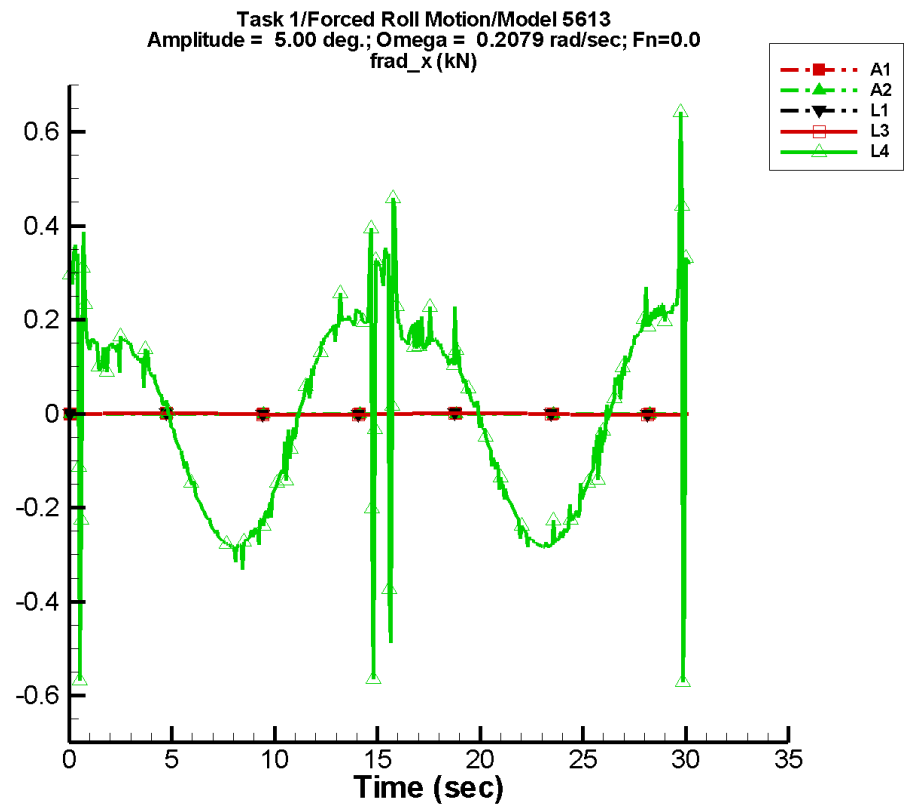
Table C-779. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	—	—	—	—	—
A2	786.	3.39E+04	-3	1.89E+03	-148
FD	6.90E+03	4.12E+05	178	1.38E+04	136
L1	1.21E-02	2.00E-05	169	1.14E-02	-94
L3	792.	3.90E+05	176	1.87E+04	58
L4	792.	3.90E+05	176	1.87E+04	58
NF	—	—	—	—	—
NS	192.	6.64E+04	0	337.	-90

Table C-780. Minimum and maximum of M_z^{hst} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	—	—	—	—
A2	-4.98E+04	6.84E+04	-3.52E+04	3.44E+04
FD	-4.66E+05	4.66E+05	-4.60E+05	4.62E+05
L1	6.36E-10	2.28E-02	2.05E-05	2.26E-02
L3	-4.44E+05	4.44E+05	-4.42E+05	4.42E+05
L4	-4.44E+05	4.44E+05	-4.42E+05	4.42E+05
NF	—	—	—	—
NS	-1.27E+05	1.28E+05	-1.26E+05	1.27E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-391. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

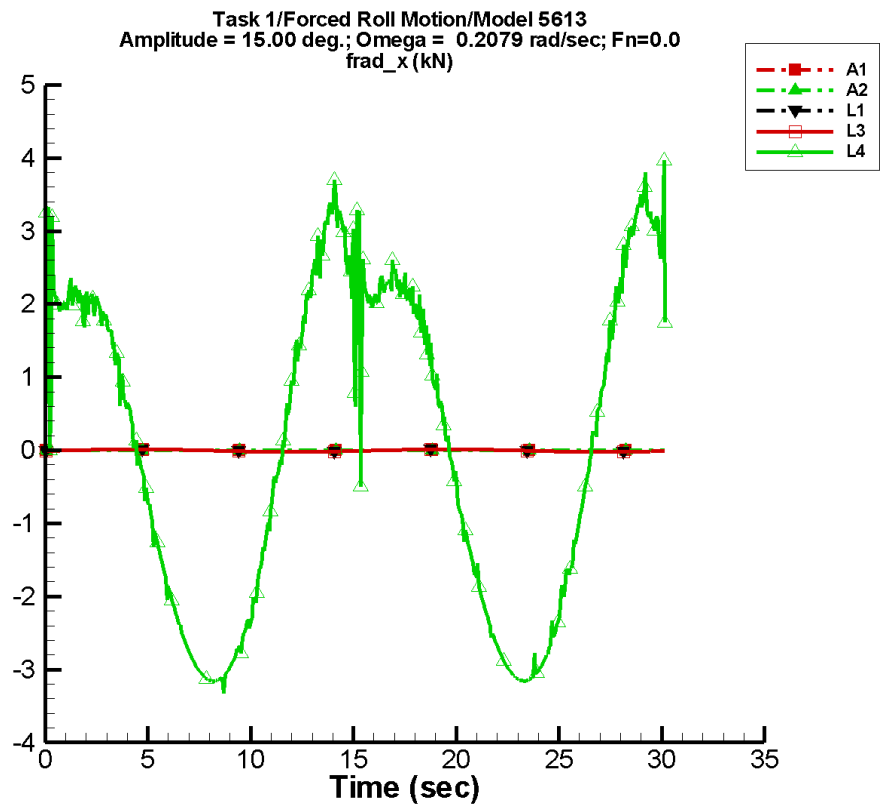
Table C–781. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.99E-07	4.29E-07	-151	1.59E-07	-5
A2	-2.99E-07	4.29E-07	-151	1.59E-07	-5
FD	—	—	—	—	—
L1	-5.29E-04	5.28E-06	-7	1.99E-03	-16
L3	-5.29E-04	5.28E-06	-7	1.99E-03	-16
L4	7.36E-03	7.64E-03	-101	0.240	82
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–782. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.94E-05	1.98E-05	-1.13E-05	1.14E-05
A2	-1.94E-05	1.98E-05	-1.13E-05	1.14E-05
FD	—	—	—	—
L1	-2.61E-03	1.51E-03	-2.53E-03	1.46E-03
L3	-2.61E-03	1.51E-03	-2.53E-03	1.46E-03
L4	-0.615	0.642	-0.288	0.304
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-392. Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

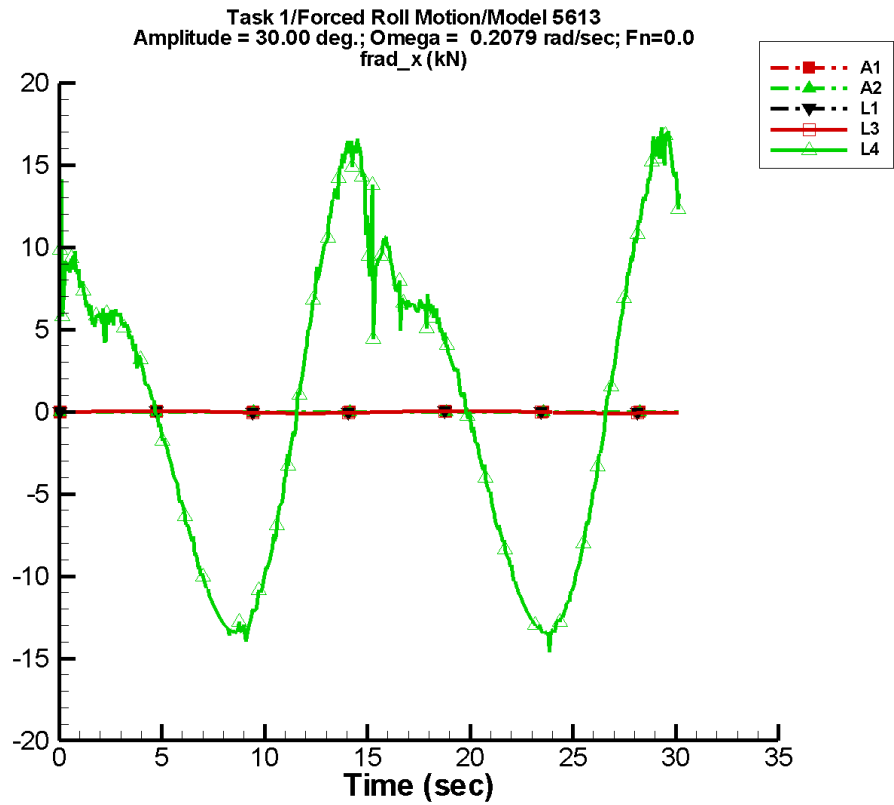
Table C–783. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.97E-07	1.29E-06	-151	4.77E-07	-5
A2	-8.97E-07	1.29E-06	-151	4.77E-07	-5
FD	—	—	—	—	—
L1	-4.76E-03	1.40E-05	-14	1.79E-02	-17
L3	-4.76E-03	1.40E-05	-14	1.79E-02	-17
L4	8.81E-02	8.17E-02	-118	2.99	81
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–784. Minimum and maximum of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.81E-05	5.92E-05	-3.38E-05	3.42E-05
A2	-5.81E-05	5.92E-05	-3.38E-05	3.42E-05
FD	—	—	—	—
L1	-2.29E-02	1.33E-02	-2.27E-02	1.31E-02
L3	-2.29E-02	1.33E-02	-2.27E-02	1.31E-02
L4	-3.33	3.96	-3.15	3.44
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-393. Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

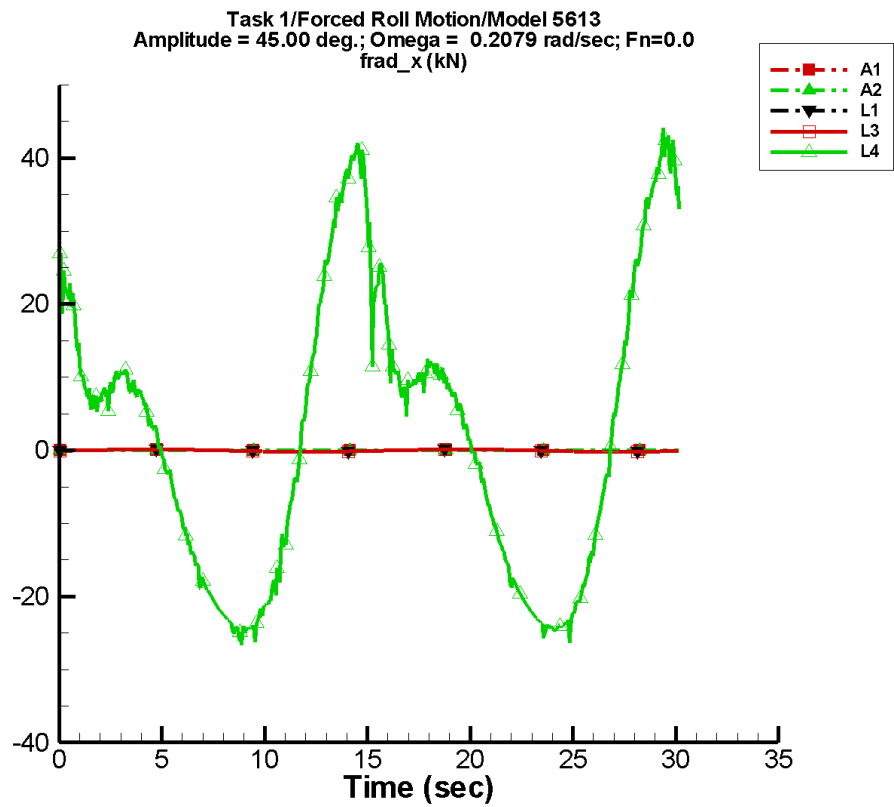
Table C–785. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.79E-06	2.58E-06	-151	9.53E-07	-5
A2	-1.79E-06	2.58E-06	-151	9.53E-07	-5
FD	—	—	—	—	—
L1	-1.91E-02	2.79E-05	-19	7.16E-02	-17
L3	-1.91E-02	2.79E-05	-19	7.16E-02	-17
L4	0.472	0.490	-107	12.2	81
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–786. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.16E-04	1.18E-04	-6.77E-05	6.83E-05
A2	-1.16E-04	1.18E-04	-6.77E-05	6.83E-05
FD	—	—	—	—
L1	-9.11E-02	5.28E-02	-9.07E-02	5.26E-02
L3	-9.11E-02	5.28E-02	-9.07E-02	5.26E-02
L4	-14.6	17.3	-13.6	16.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-394. Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

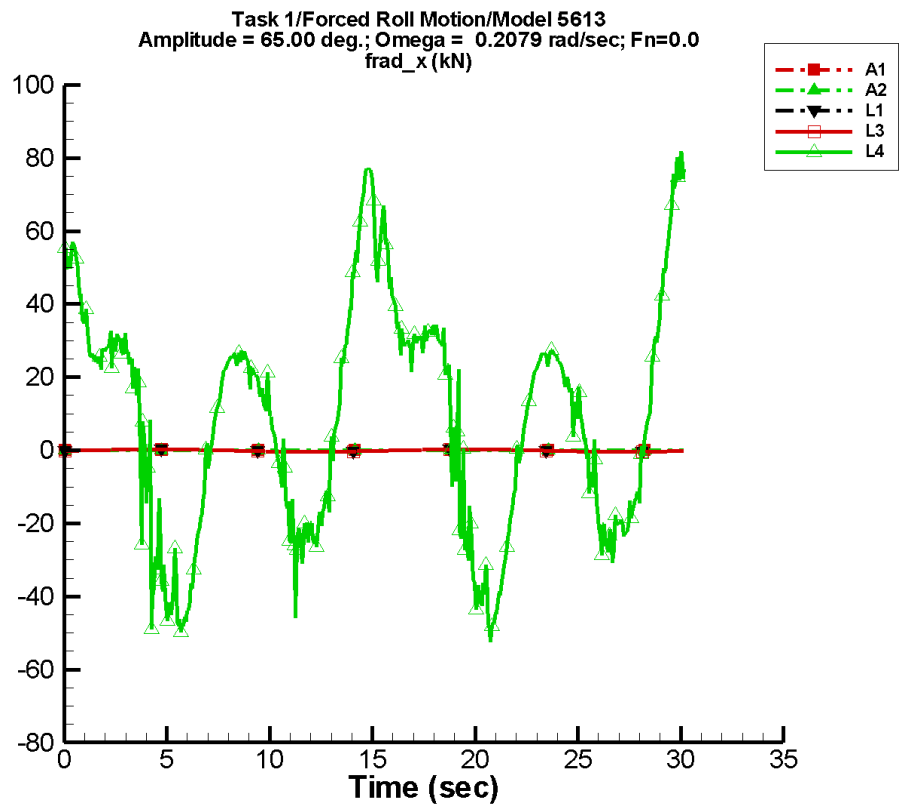
Table C-787. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.69E-06	3.86E-06	-151	1.43E-06	-5
A2	-2.69E-06	3.86E-06	-151	1.43E-06	-5
FD	—	—	—	—	—
L1	-4.29E-02	4.60E-05	-17	0.161	-17
L3	-4.29E-02	4.60E-05	-17	0.161	-17
L4	1.82	1.18	-115	24.1	81
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-788. Minimum and maximum of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.74E-04	1.78E-04	-1.02E-04	1.03E-04
A2	-1.74E-04	1.78E-04	-1.02E-04	1.03E-04
FD	—	—	—	—
L1	-0.204	0.119	-0.204	0.118
L3	-0.204	0.119	-0.204	0.118
L4	-26.6	44.1	-25.1	41.4
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-395. Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

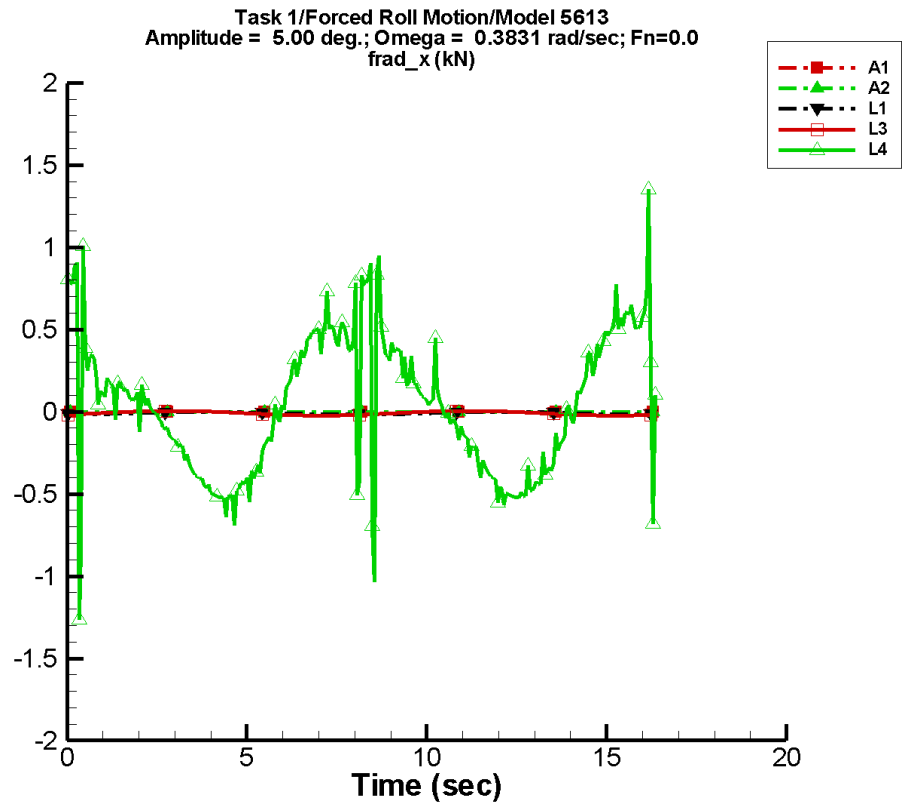
Table C-789. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-3.89E-06	5.58E-06	-151	2.07E-06	-5
A2	-3.89E-06	5.58E-06	-151	2.07E-06	-5
FD	—	—	—	—	—
L1	-8.94E-02	6.20E-05	-24	0.336	-17
L3	-8.94E-02	6.20E-05	-24	0.336	-17
L4	8.35	2.40	128	21.4	92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-790. Minimum and maximum of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.52E-04	2.57E-04	-1.47E-04	1.48E-04
A2	-2.52E-04	2.57E-04	-1.47E-04	1.48E-04
FD	—	—	—	—
L1	-0.427	0.247	-0.426	0.247
L3	-0.427	0.247	-0.426	0.247
L4	-52.5	81.7	-46.9	77.1
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-396. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

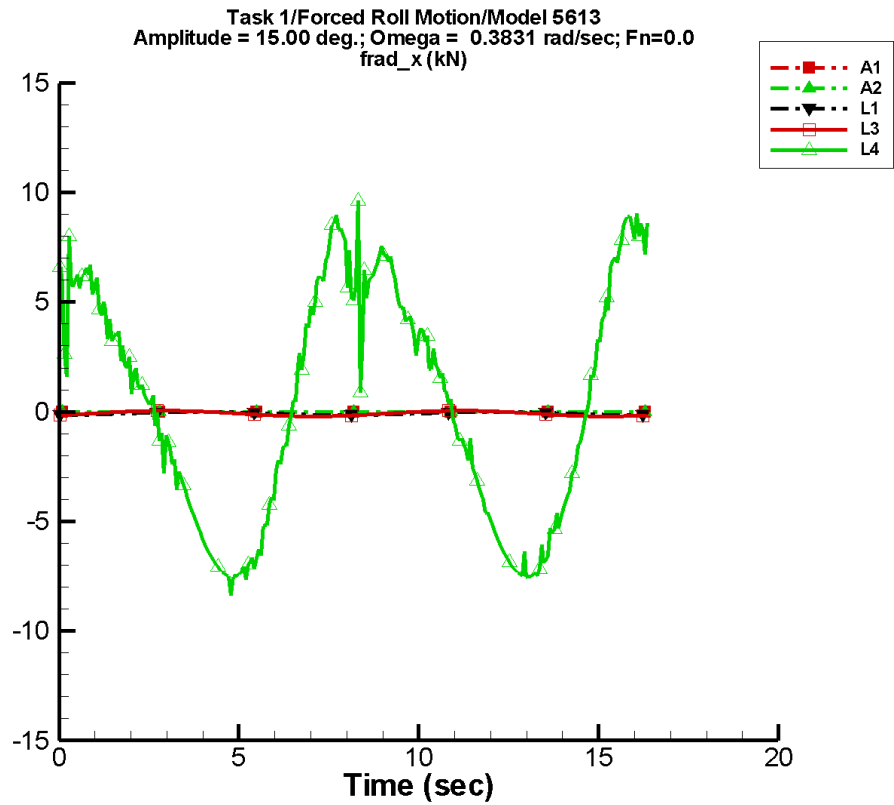
Table C-791. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-9.17E-07	1.46E-05	100	1.43E-06	-35
A2	-9.17E-07	1.46E-05	100	1.43E-06	-35
FD	—	—	—	—	—
L1	-9.09E-03	1.75E-05	-5	8.31E-03	-81
L3	-9.09E-03	1.69E-05	-4	1.43E-02	-40
L4	3.11E-02	1.46E-02	-128	0.464	94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-792. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.55E-05	6.35E-05	-2.69E-05	4.36E-05
A2	-5.55E-05	6.35E-05	-2.69E-05	4.36E-05
FD	—	—	—	—
L1	-1.77E-02	-7.24E-04	-1.75E-02	-8.01E-04
L3	-2.36E-02	5.35E-03	-2.35E-02	5.23E-03
L4	-1.35	1.35	-0.546	0.713
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-397. Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

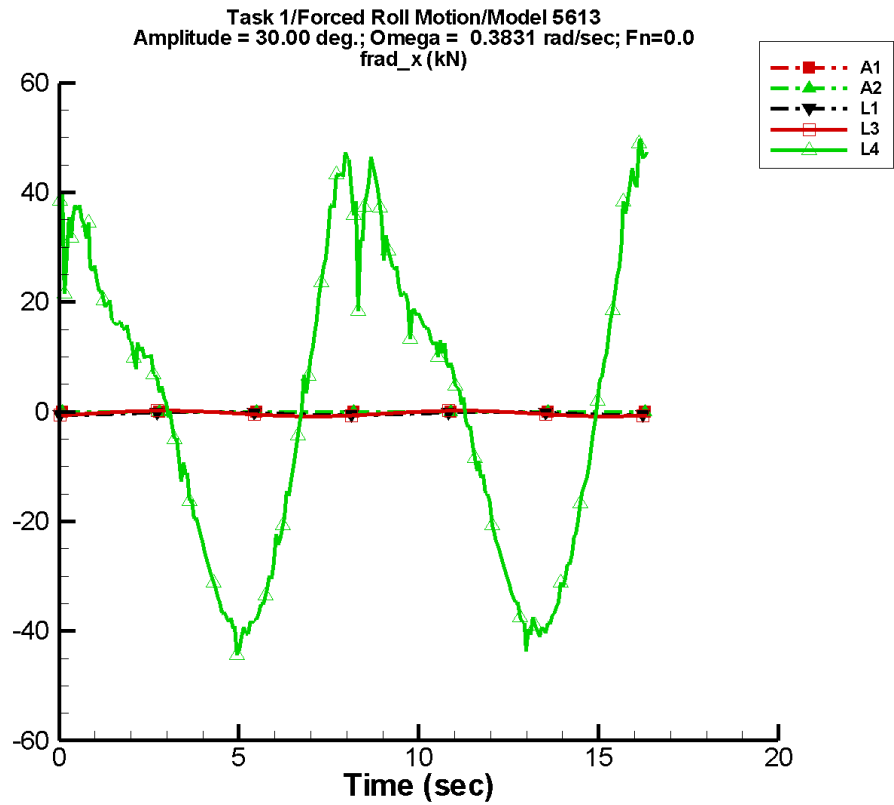
Table C-793. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.75E-06	4.39E-05	100	4.29E-06	-35
A2	-2.75E-06	4.39E-05	100	4.29E-06	-35
FD	—	—	—	—	—
L1	-8.18E-02	7.07E-05	15	7.48E-02	-81
L3	-8.18E-02	6.96E-05	12	0.129	-40
L4	0.334	0.301	-135	7.01	72
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-794. Minimum and maximum of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.66E-04	1.90E-04	-8.07E-05	1.31E-04
A2	-1.66E-04	1.90E-04	-8.07E-05	1.31E-04
FD	—	—	—	—
L1	-0.158	-6.85E-03	-0.157	-7.29E-03
L3	-0.213	4.78E-02	-0.212	4.71E-02
L4	-8.38	9.62	-7.58	8.56
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-398. Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

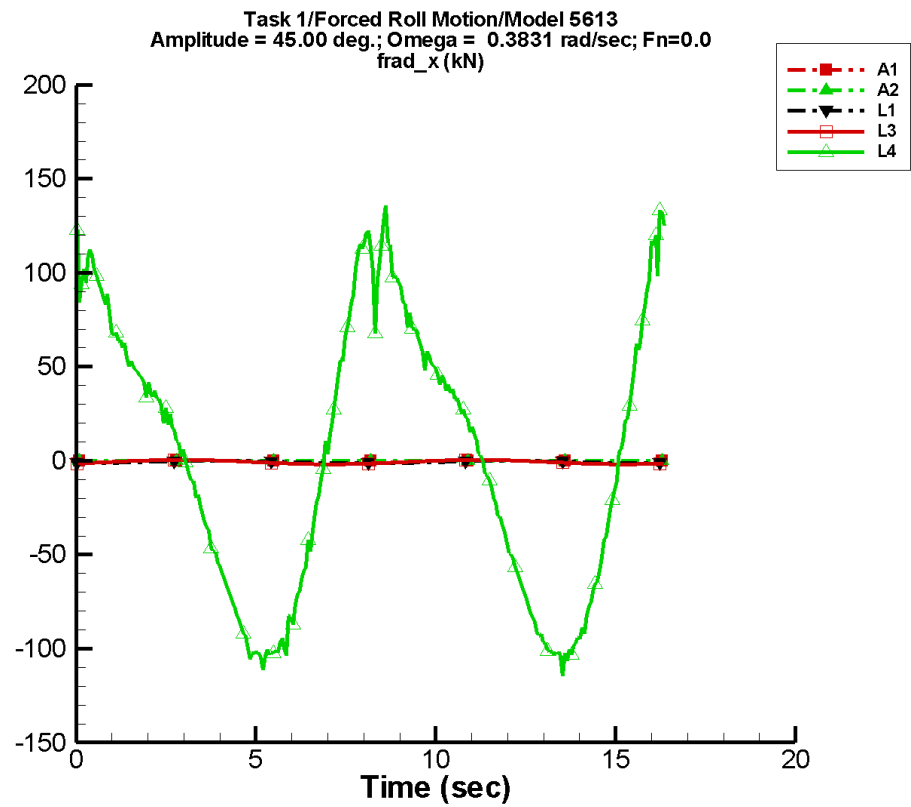
Table C-795. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-5.50E-06	8.78E-05	100	8.58E-06	-35
A2	-5.50E-06	8.78E-05	100	8.58E-06	-35
FD	—	—	—	—	—
L1	-0.327	2.28E-04	30	0.299	-81
L3	-0.327	2.19E-04	25	0.517	-40
L4	1.19	1.42	-124	36.0	61
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-796. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.33E-04	3.81E-04	-1.61E-04	2.62E-04
A2	-3.33E-04	3.81E-04	-1.61E-04	2.62E-04
FD	—	—	—	—
L1	-0.632	-2.76E-02	-0.630	-2.92E-02
L3	-0.851	0.191	-0.847	0.188
L4	-44.4	51.3	-41.1	46.1
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-399. Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

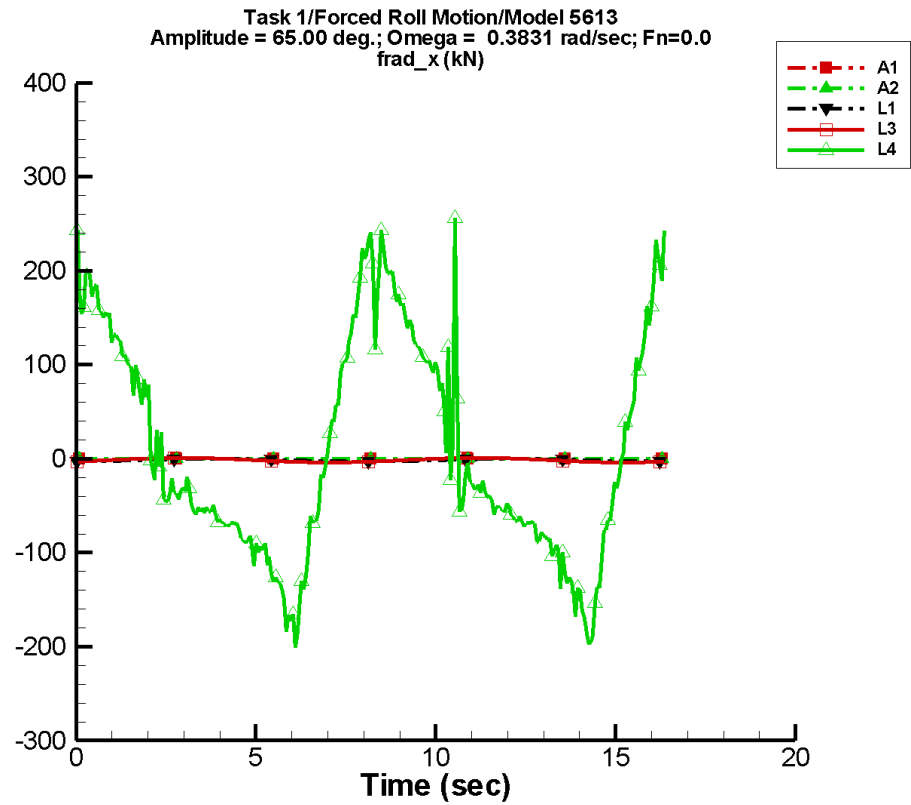
Table C-797. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.25E-06	1.32E-04	100	1.29E-05	-35
A2	-8.25E-06	1.32E-04	100	1.29E-05	-35
FD	—	—	—	—	—
L1	-0.736	4.98E-04	37	0.673	-81
L3	-0.736	4.77E-04	31	1.16	-40
L4	2.53	3.05	-141	95.7	56
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-798. Minimum and maximum of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.99E-04	5.71E-04	-2.42E-04	3.93E-04
A2	-4.99E-04	5.71E-04	-2.42E-04	3.93E-04
FD	—	—	—	—
L1	-1.42	-6.16E-02	-1.42	-6.58E-02
L3	-1.91	0.431	-1.91	0.424
L4	-115.	136.	-105.	118.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-400. Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

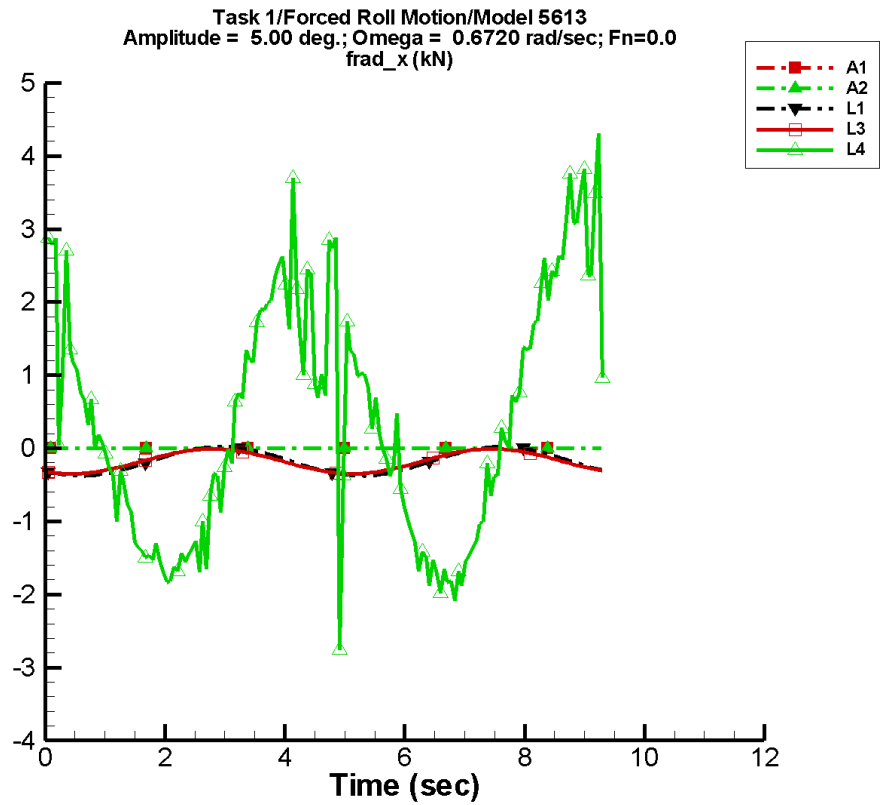
Table C-799. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.19E-05	1.90E-04	100	1.86E-05	-35
A2	-4.92E-06	1.84E-04	90	1.65E-05	-42
FD	—	—	—	—	—
L1	-1.54	9.80E-04	42	1.40	-81
L3	-1.54	9.29E-04	37	2.43	-40
L4	11.8	8.89	-158	142.	61
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C-800. Minimum and maximum of of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.21E-04	8.25E-04	-3.50E-04	5.67E-04
A2	-8.24E-04	8.70E-04	-5.37E-04	4.49E-04
FD	—	—	—	—
L1	-2.97	-0.129	-2.96	-0.137
L3	-3.99	0.899	-3.98	0.885
L4	-201.	256.	-174.	216.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-401. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

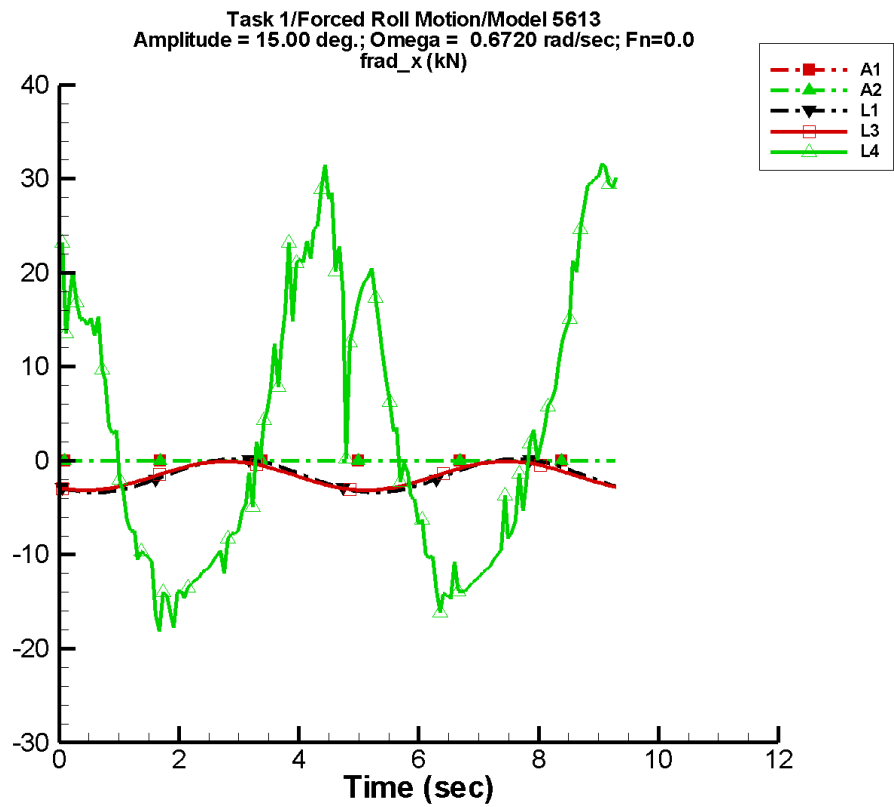
Table C–801. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.15E-06	1.12E-04	-9	6.09E-06	-86
A2	1.15E-06	1.12E-04	-9	6.09E-06	-86
FD	—	—	—	—	—
L1	-0.179	1.21E-04	158	0.198	-137
L3	-0.179	1.19E-04	156	0.170	-124
L4	0.384	0.282	111	2.08	120
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–802. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.41E-04	1.73E-04	-1.35E-04	1.47E-04
A2	-1.41E-04	1.73E-04	-1.35E-04	1.47E-04
FD	—	—	—	—
L1	-0.377	1.89E-02	-0.374	1.66E-02
L3	-0.349	-8.54E-03	-0.346	-1.13E-02
L4	-2.75	4.30	-1.81	3.19
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-402. Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

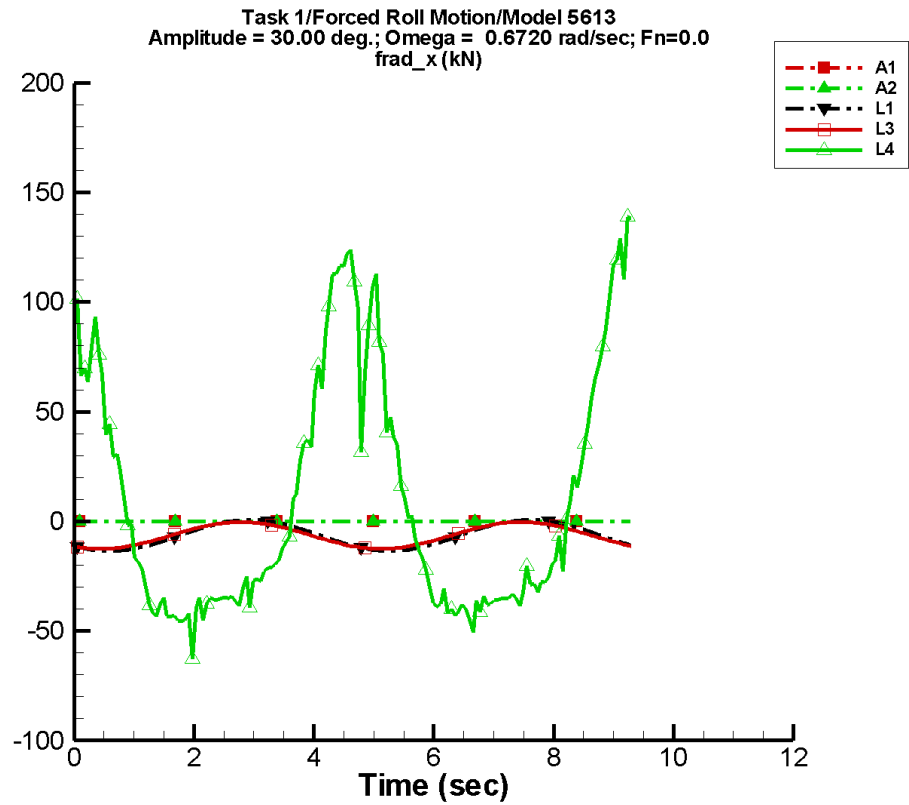
Table C–803. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	3.44E-06	3.36E-04	-9	1.83E-05	-86
A2	3.44E-06	3.36E-04	-9	1.83E-05	-86
FD	—	—	—	—	—
L1	-1.61	3.23E-04	162	1.78	-137
L3	-1.61	3.20E-04	164	1.53	-124
L4	3.63	0.867	162	19.8	108
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–804. Minimum and maximum of of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.22E-04	5.18E-04	-4.06E-04	4.39E-04
A2	-4.22E-04	5.18E-04	-4.06E-04	4.39E-04
FD	—	—	—	—
L1	-3.39	0.171	-3.36	0.151
L3	-3.14	-7.69E-02	-3.12	-0.102
L4	-18.2	31.7	-15.3	30.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-403. Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

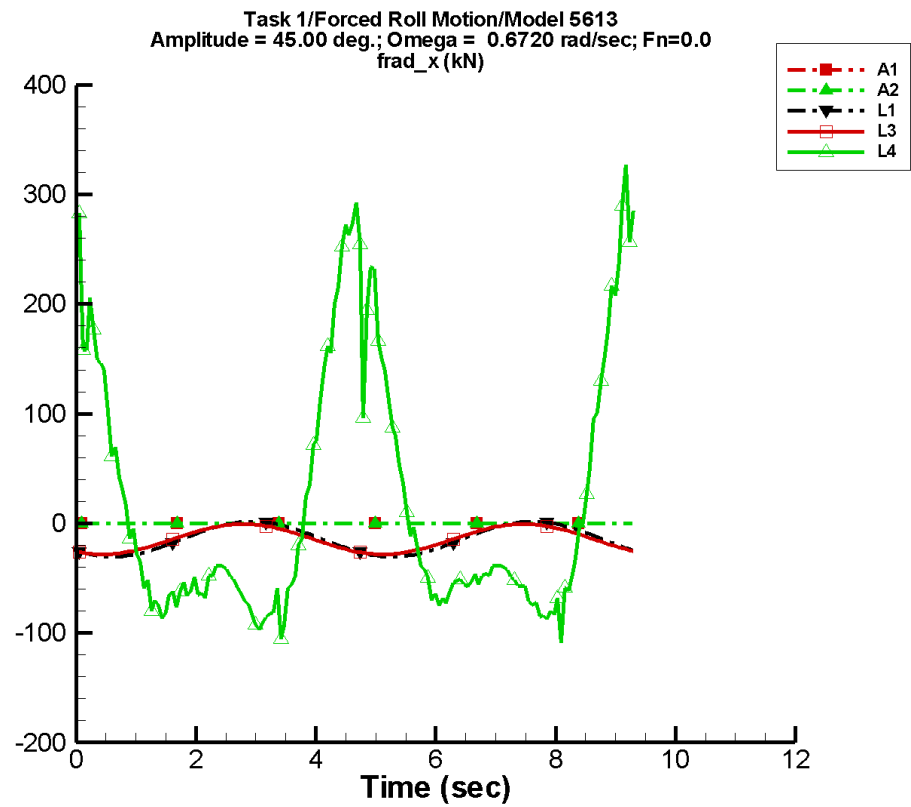
Table C–805. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.88E-06	6.72E-04	-9	3.66E-05	-86
A2	6.88E-06	6.72E-04	-9	3.66E-05	-86
FD	—	—	—	—	—
L1	-6.44	5.03E-04	180	7.12	-137
L3	-6.44	5.10E-04	-174	6.13	-124
L4	11.0	1.52	-137	70.1	101
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–806. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-8.44E-04	1.04E-03	-8.12E-04	8.79E-04
A2	-8.44E-04	1.04E-03	-8.12E-04	8.79E-04
FD	—	—	—	—
L1	-13.6	0.683	-13.4	0.603
L3	-12.6	-0.308	-12.5	-0.409
L4	-62.7	139.	-45.0	120.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-404. Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

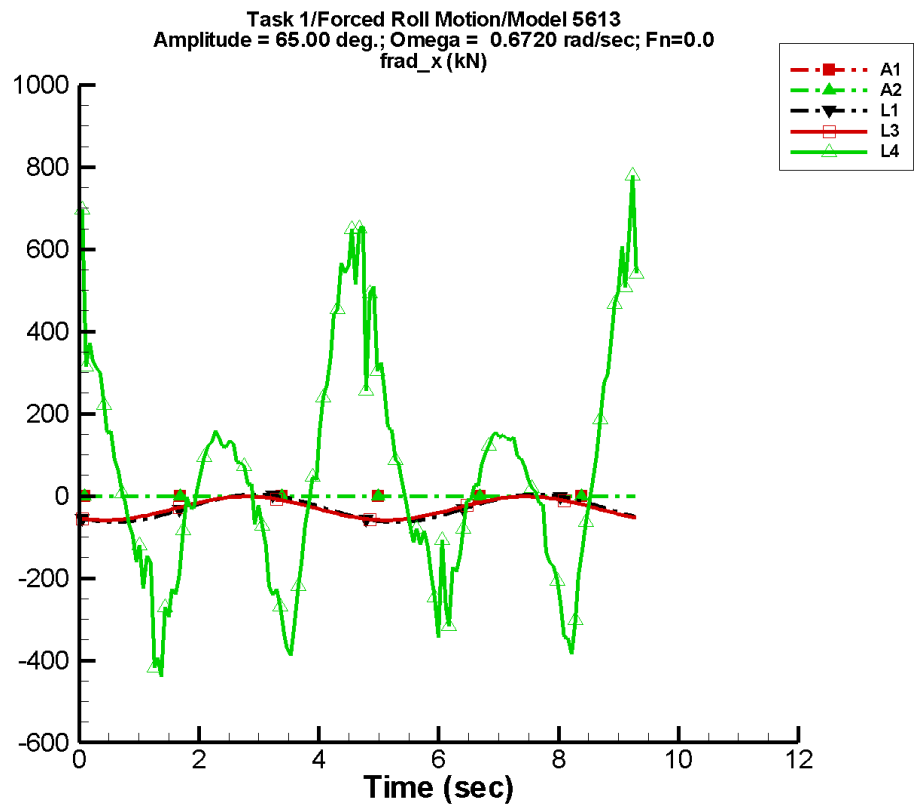
Table C–807. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.03E-05	1.01E-03	-9	5.48E-05	-86
A2	1.03E-05	1.01E-03	-9	5.48E-05	-86
FD	—	—	—	—	—
L1	-14.5	7.30E-04	-147	16.0	-137
L3	-14.5	8.15E-04	-138	13.8	-124
L4	22.1	3.58	-157	132.	94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–808. Minimum and maximum of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.27E-03	1.55E-03	-1.22E-03	1.32E-03
A2	-1.27E-03	1.55E-03	-1.22E-03	1.32E-03
FD	—	—	—	—
L1	-30.5	1.54	-30.3	1.35
L3	-28.3	-0.693	-28.0	-0.921
L4	-109.	327.	-86.7	266.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-405. Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

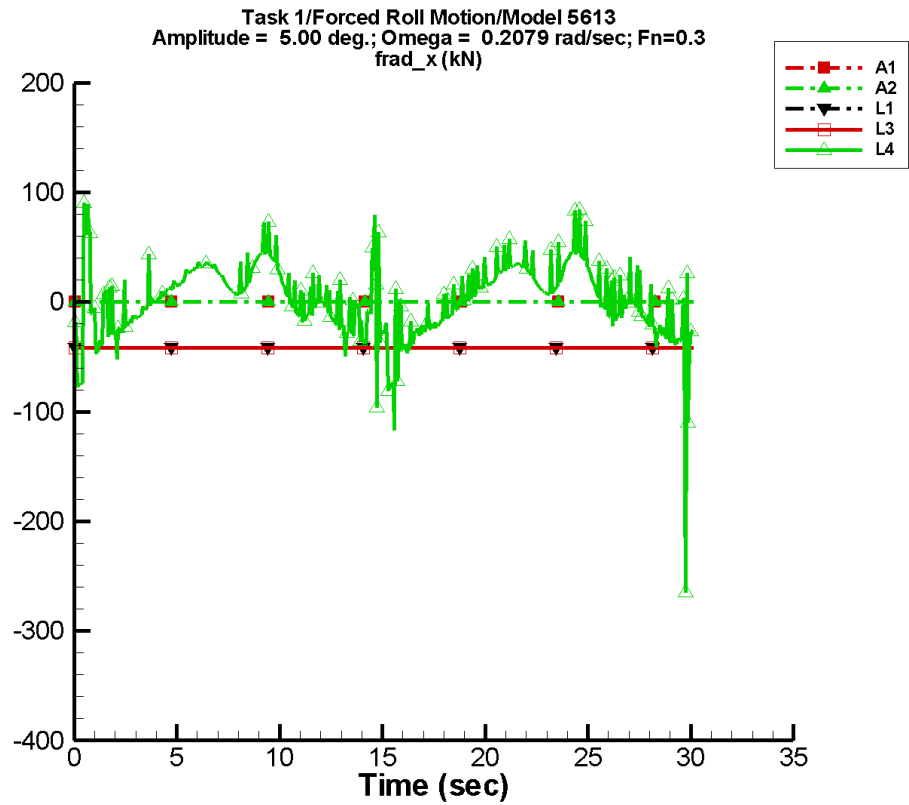
Table C–809. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.49E-05	1.46E-03	-9	7.92E-05	-86
A2	1.49E-05	1.46E-03	-9	7.92E-05	-86
FD	—	—	—	—	—
L1	-30.2	1.21E-03	-118	33.4	-137
L3	-30.2	1.52E-03	-114	28.8	-124
L4	63.3	13.4	-118	181.	108
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–810. Minimum and maximum of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.83E-03	2.24E-03	-1.76E-03	1.90E-03
A2	-1.83E-03	2.24E-03	-1.76E-03	1.90E-03
FD	—	—	—	—
L1	-63.7	3.20	-63.1	2.83
L3	-59.0	-1.45	-58.5	-1.92
L4	-439.	779.	-302.	589.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-406. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

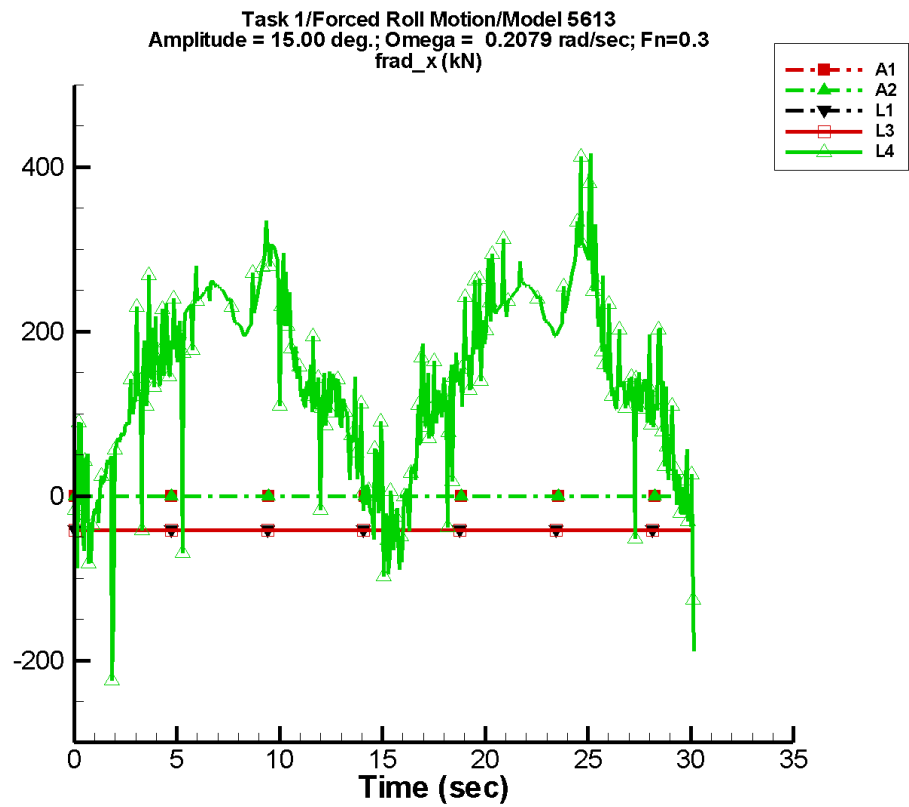
Table C–811. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.54E-07	7.41E-04	101	3.84E-07	40
A2	-1.54E-07	7.41E-04	101	3.84E-07	40
FD	—	—	—	—	—
L1	-41.6	1.98E-03	22	1.51E-02	104
L3	-41.7	4.56E-02	-78	3.64E-02	34
L4	2.88	1.50	99	29.4	-94
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–812. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.38E-04	7.40E-04	-7.37E-04	7.39E-04
A2	-7.38E-04	7.40E-04	-7.37E-04	7.39E-04
FD	—	—	—	—
L1	-41.7	-41.6	-41.6	-41.6
L3	-41.7	-41.6	-41.7	-41.6
L4	-265.	116.	-66.7	53.5
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-407. Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

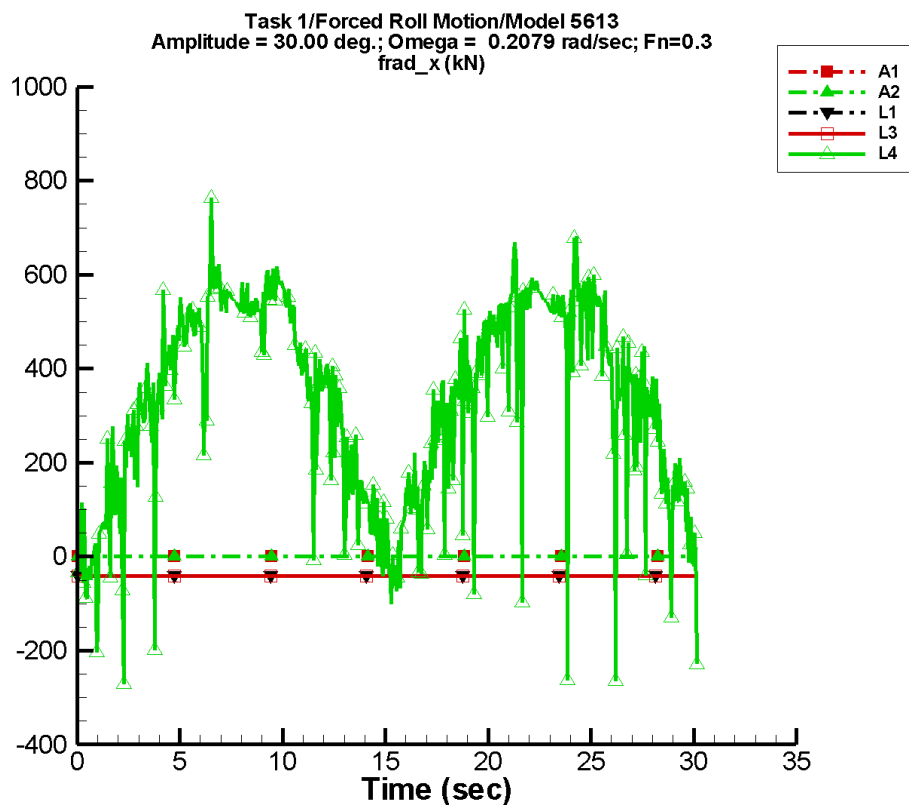
Table C–813. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-4.63E-07	2.22E-03	101	1.15E-06	40
A2	-4.63E-07	2.22E-03	101	1.15E-06	40
FD	—	—	—	—	—
L1	-41.5	2.38E-03	40	0.137	106
L3	-41.5	4.49E-02	-78	0.137	91
L4	146.	7.29	-159	126.	-96
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–814. Minimum and maximum of of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.21E-03	2.22E-03	-2.21E-03	2.22E-03
A2	-2.21E-03	2.22E-03	-2.21E-03	2.22E-03
FD	—	—	—	—
L1	-41.7	-41.3	-41.7	-41.4
L3	-41.7	-41.3	-41.7	-41.3
L4	-224.	417.	-56.2	327.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-408. Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

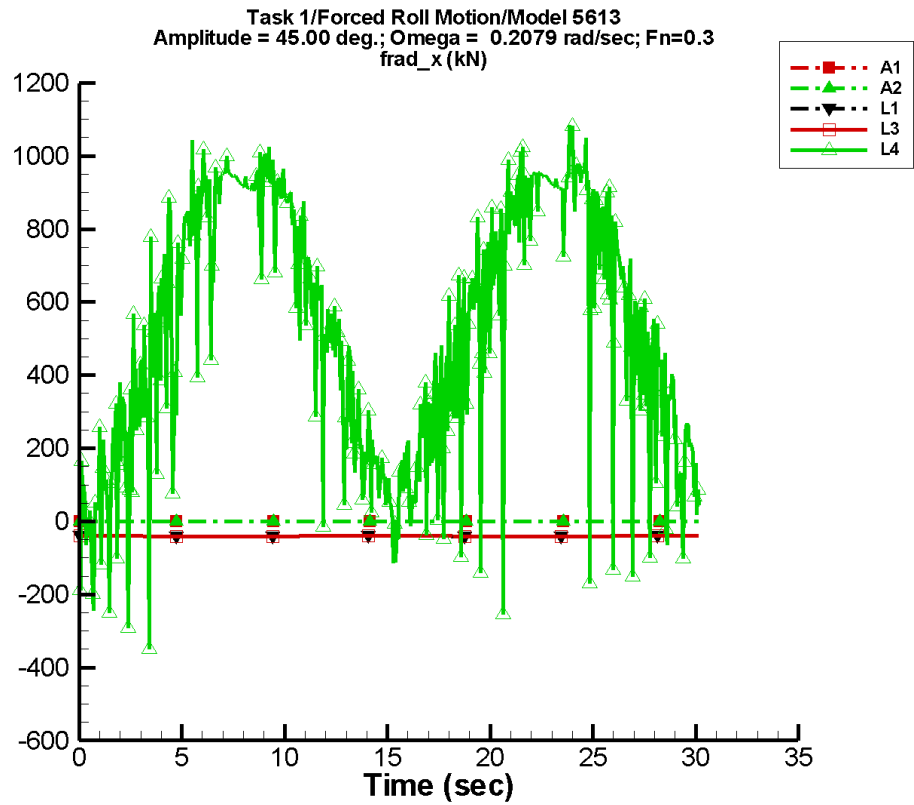
Table C–815. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-9.26E-07	4.44E-03	101	2.30E-06	40
A2	-9.26E-07	4.44E-03	101	2.30E-06	40
FD	—	—	—	—	—
L1	-41.1	3.54E-03	59	0.548	106
L3	-41.1	4.34E-02	-77	0.545	102
L4	334.	15.6	-74	253.	-97
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–816. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.42E-03	4.44E-03	-4.42E-03	4.43E-03
A2	-4.42E-03	4.44E-03	-4.42E-03	4.43E-03
FD	—	—	—	—
L1	-41.7	-40.5	-41.7	-40.6
L3	-41.7	-40.5	-41.7	-40.5
L4	-273.	764.	-46.7	611.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-409. Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

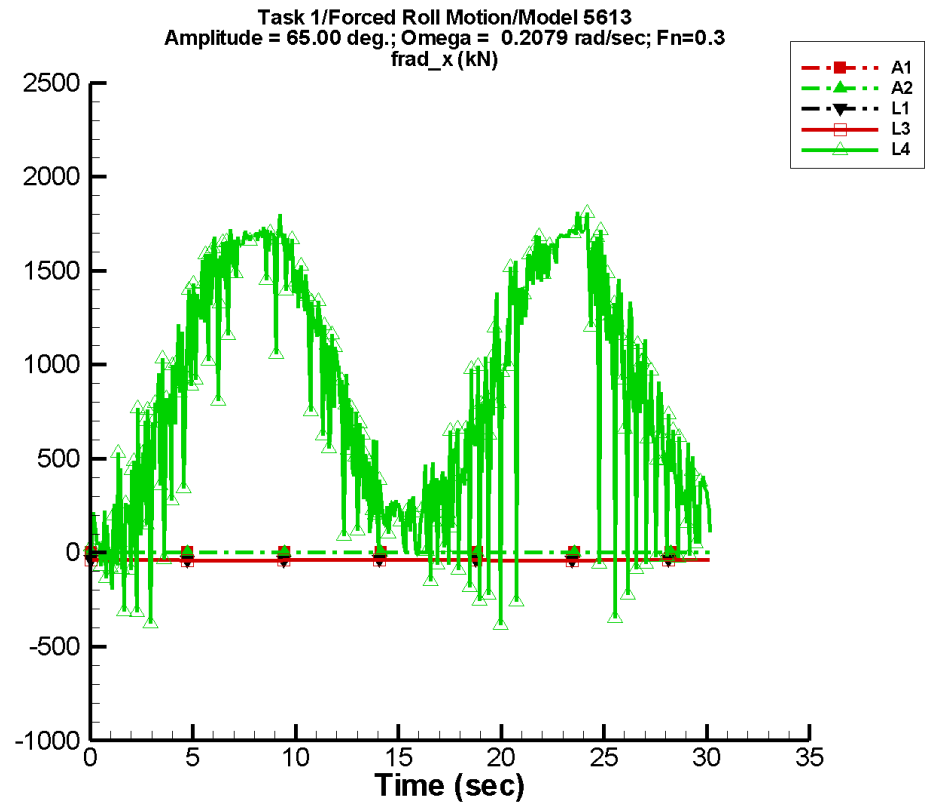
Table C–817. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.39E-06	6.67E-03	101	3.46E-06	40
A2	-1.39E-06	6.67E-03	101	3.46E-06	40
FD	—	—	—	—	—
L1	-40.4	5.23E-03	69	1.23	106
L3	-40.5	4.17E-02	-77	1.23	104
L4	530.	19.8	-64	437.	-100
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–818. Minimum and maximum of of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.64E-03	6.66E-03	-6.63E-03	6.65E-03
A2	-6.64E-03	6.66E-03	-6.63E-03	6.65E-03
FD	—	—	—	—
L1	-41.7	-39.2	-41.7	-39.2
L3	-41.8	-39.2	-41.8	-39.2
L4	-359.	1.08E+03	-61.9	982.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-410. Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

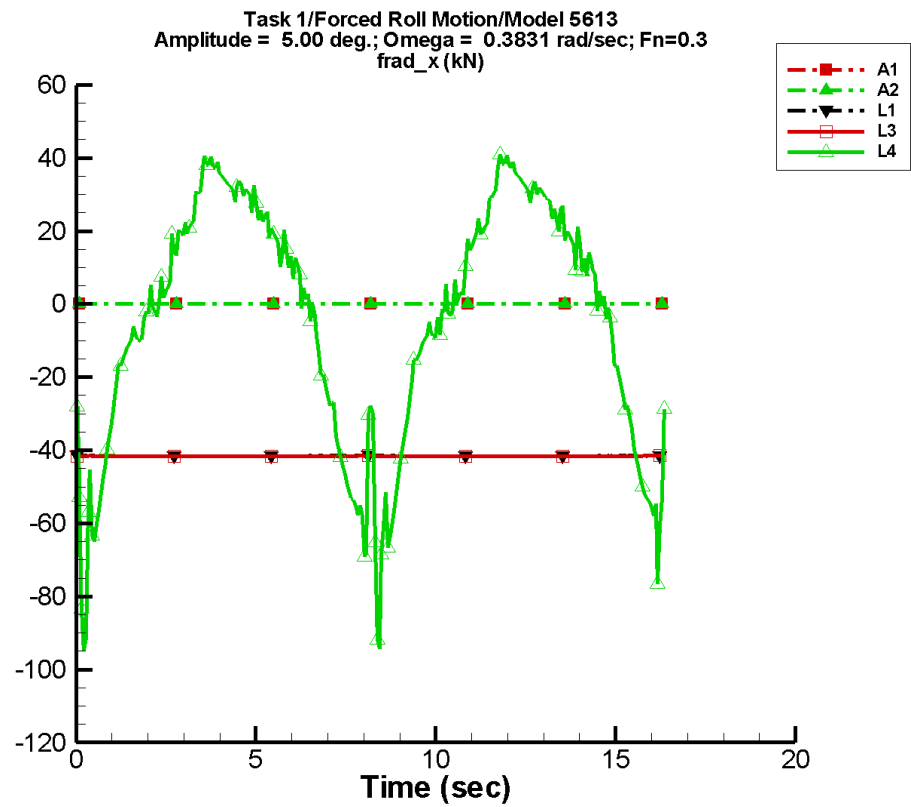
Table C–819. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.01E-06	9.63E-03	101	4.99E-06	40
A2	-2.01E-06	9.63E-03	101	4.99E-06	40
FD	—	—	—	—	—
L1	-39.1	7.53E-03	75	2.57	106
L3	-39.2	3.94E-02	-76	2.57	105
L4	860.	56.0	-32	783.	-102
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–820. Minimum and maximum of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-9.59E-03	9.62E-03	-9.58E-03	9.61E-03
A2	-9.59E-03	9.62E-03	-9.58E-03	9.61E-03
FD	—	—	—	—
L1	-41.7	-36.5	-41.7	-36.6
L3	-41.8	-36.5	-41.8	-36.6
L4	-384.	1.81E+03	5.73	1.74E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-411. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

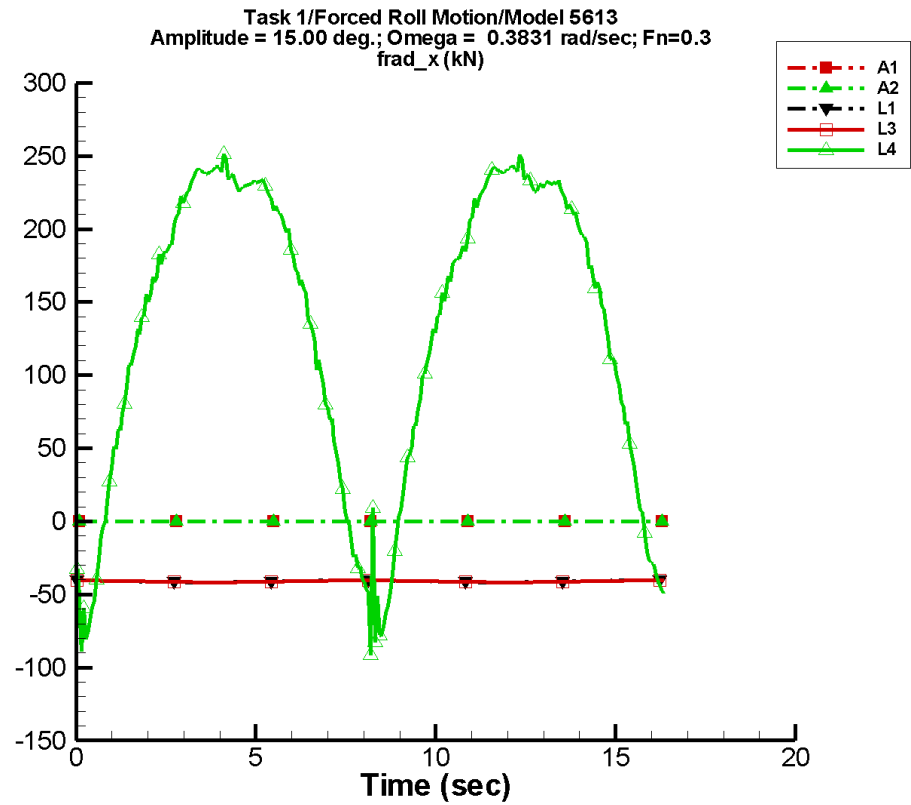
Table C–821. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.96E-07	1.46E-03	88	5.95E-06	67
A2	6.96E-07	1.46E-03	88	5.95E-06	67
FD	—	—	—	—	—
L1	-41.6	5.94E-04	69	7.40E-02	109
L3	-41.6	1.79E-02	-137	6.92E-02	97
L4	-4.91	0.743	-41	44.3	-93
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–822. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.46E-03	1.47E-03	-1.45E-03	1.47E-03
A2	-1.46E-03	1.47E-03	-1.45E-03	1.47E-03
FD	—	—	—	—
L1	-41.7	-41.5	-41.7	-41.5
L3	-41.7	-41.5	-41.7	-41.5
L4	-96.1	41.0	-67.2	38.6
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-412. Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

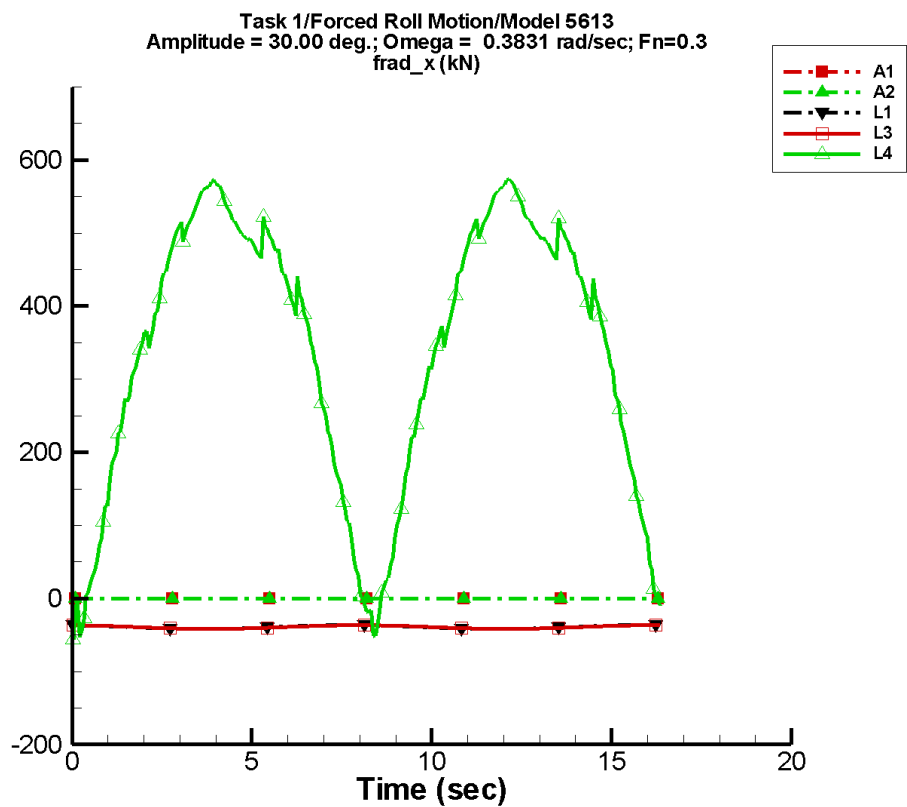
Table C–823. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.09E-06	4.39E-03	88	1.78E-05	67
A2	2.09E-06	4.39E-03	88	1.78E-05	67
FD	—	—	—	—	—
L1	-41.0	2.54E-03	80	0.667	110
L3	-41.0	1.65E-02	-141	0.630	100
L4	129.	3.23	-37	139.	-92
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–824. Minimum and maximum of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.38E-03	4.41E-03	-4.36E-03	4.42E-03
A2	-4.38E-03	4.41E-03	-4.36E-03	4.42E-03
FD	—	—	—	—
L1	-41.7	-40.3	-41.7	-40.3
L3	-41.7	-40.4	-41.7	-40.4
L4	-104.	251.	-65.7	242.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-413. Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

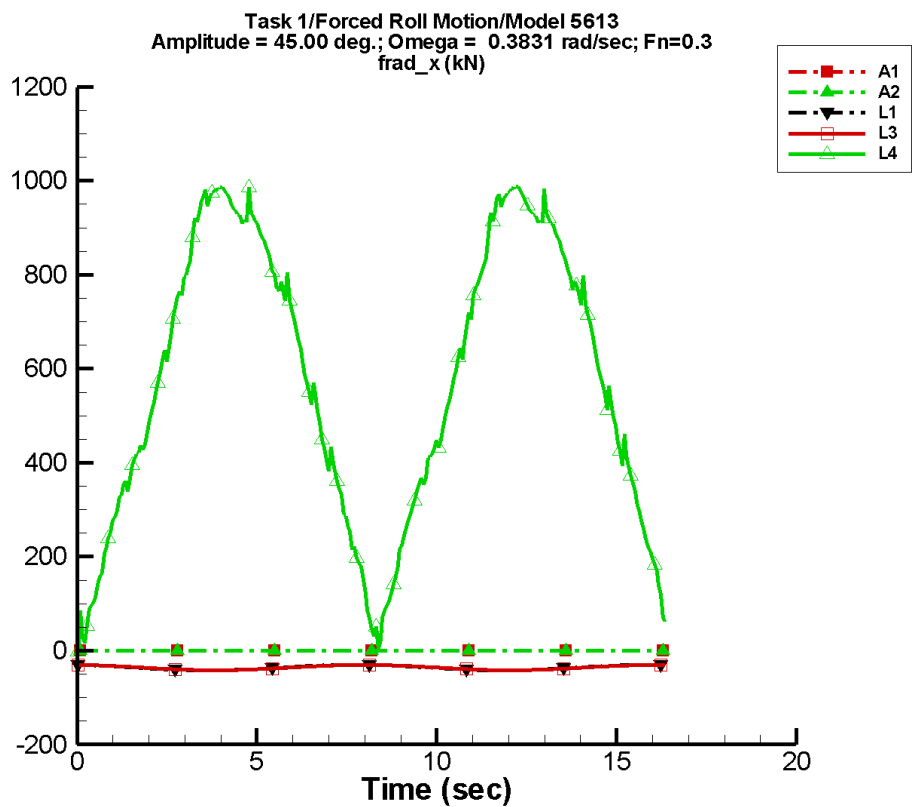
Table C–825. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.18E-06	8.77E-03	88	3.57E-05	67
A2	4.18E-06	8.77E-03	88	3.57E-05	67
FD	—	—	—	—	—
L1	-39.1	5.49E-03	83	2.67	110
L3	-39.1	1.45E-02	-150	2.52	100
L4	333.	7.15	-45	253.	-95
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–826. Minimum and maximum of of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-8.75E-03	8.83E-03	-8.72E-03	8.84E-03
A2	-8.75E-03	8.83E-03	-8.72E-03	8.84E-03
FD	—	—	—	—
L1	-41.8	-36.4	-41.8	-36.5
L3	-41.7	-36.6	-41.7	-36.6
L4	-58.6	574.	-43.6	567.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-414. Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

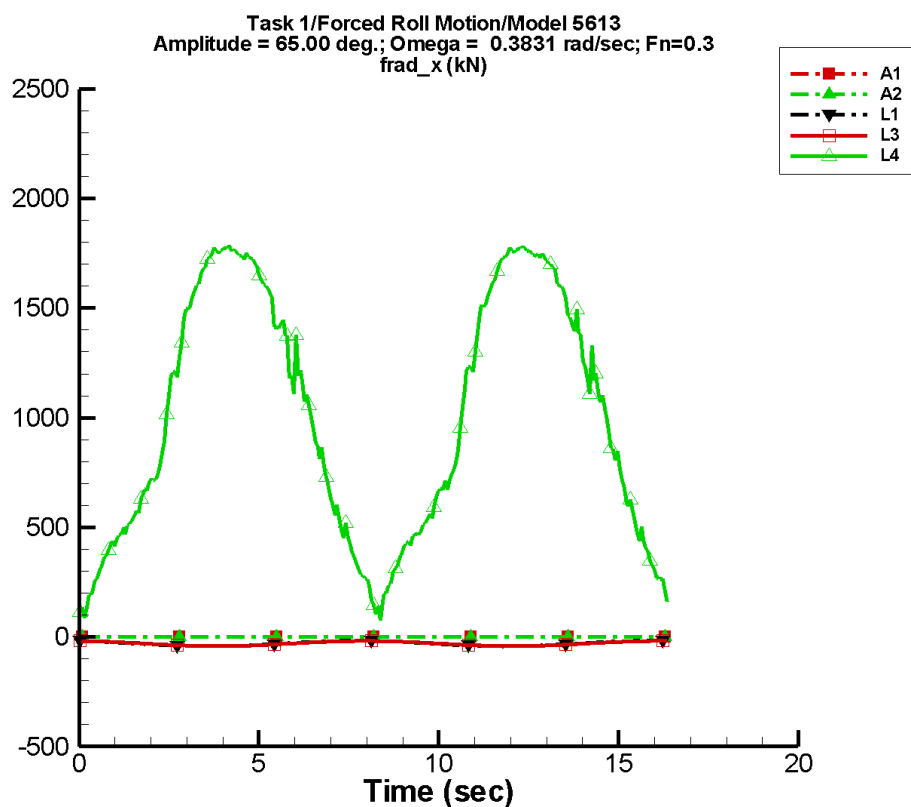
Table C–827. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.26E-06	1.32E-02	88	5.35E-05	67
A2	6.26E-06	1.32E-02	88	5.35E-05	67
FD	—	—	—	—	—
L1	-36.0	8.58E-03	85	6.00	110
L3	-36.0	1.31E-02	-161	5.68	100
L4	569.	3.68	-51	420.	-98
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–828. Minimum and maximum of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.31E-02	1.32E-02	-1.31E-02	1.33E-02
A2	-1.31E-02	1.32E-02	-1.31E-02	1.33E-02
FD	—	—	—	—
L1	-42.0	-29.9	-41.9	-30.0
L3	-41.7	-30.3	-41.6	-30.3
L4	-1.94	988.	18.5	980.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-415. Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

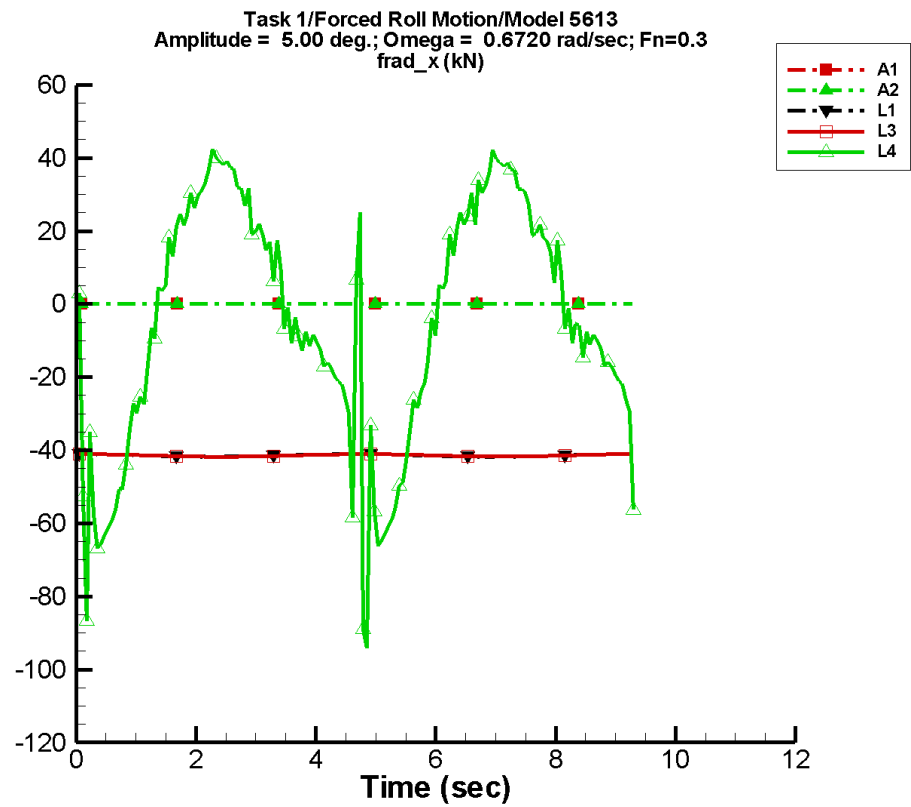
Table C–829. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	9.05E-06	1.90E-02	88	7.73E-05	67
A2	-6.58E-06	1.90E-02	88	5.72E-05	-74
FD	—	—	—	—	—
L1	-29.8	1.25E-02	85	12.5	110
L3	-29.8	1.19E-02	-180	11.9	100
L4	997.	0.501	171	784.	-101
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–830. Minimum and maximum of of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.90E-02	1.91E-02	-1.89E-02	1.92E-02
A2	-1.91E-02	1.95E-02	-1.91E-02	1.90E-02
FD	—	—	—	—
L1	-42.3	-17.2	-42.2	-17.3
L3	-41.7	-17.9	-41.6	-18.0
L4	78.0	1.79E+03	118.	1.77E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-416. Time history of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

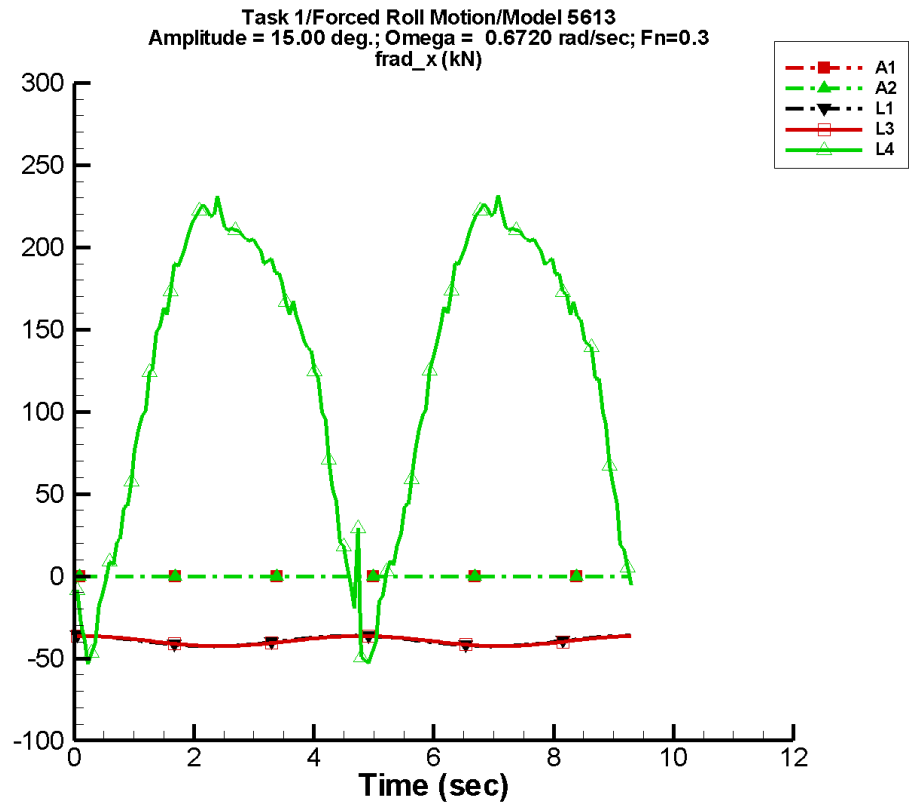
Table C–831. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.14E-07	2.43E-03	75	9.44E-07	31
A2	-2.14E-07	2.43E-03	75	9.44E-07	31
FD	—	—	—	—	—
L1	-41.4	2.19E-03	90	0.358	93
L3	-41.4	2.66E-02	124	0.333	83
L4	-5.27	0.630	-102	43.0	-107
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–832. Minimum and maximum of F_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.56E-03	2.50E-03	-2.38E-03	2.39E-03
A2	-2.56E-03	2.50E-03	-2.38E-03	2.39E-03
FD	—	—	—	—
L1	-41.8	-41.0	-41.8	-41.0
L3	-41.8	-41.0	-41.8	-41.0
L4	-94.7	42.5	-61.8	38.3
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-417. Time history of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

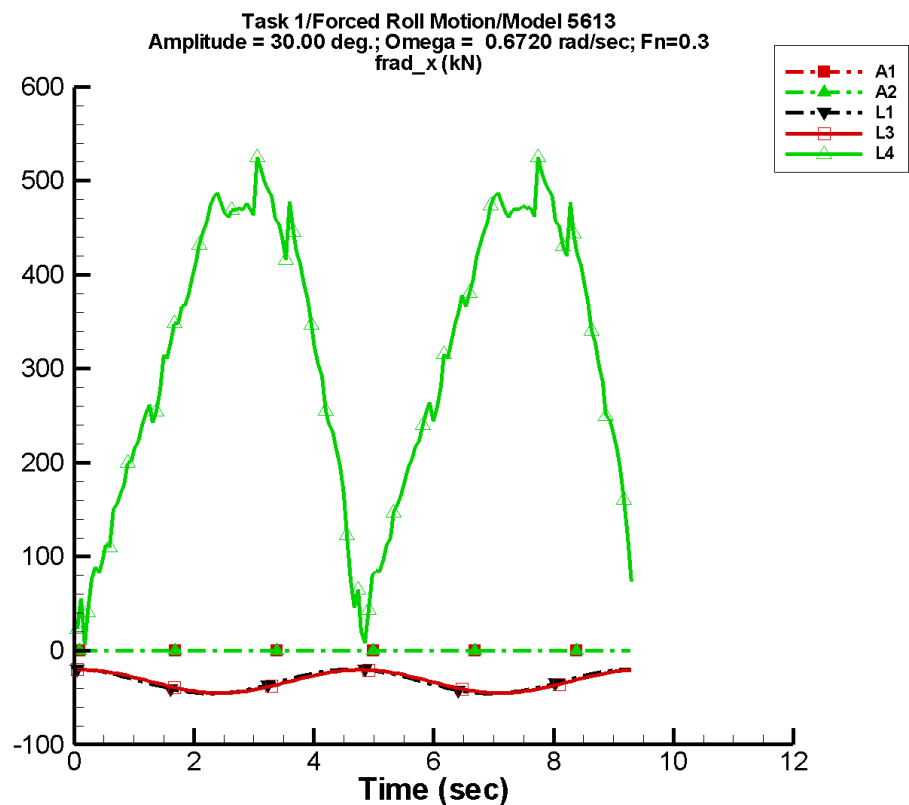
Table C–833. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-6.42E-07	7.28E-03	75	2.83E-06	31
A2	-6.42E-07	7.28E-03	75	2.83E-06	31
FD	—	—	—	—	—
L1	-39.4	6.02E-03	82	3.22	93
L3	-39.4	2.93E-02	119	3.08	82
L4	121.	1.30	-140	119.	-108
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–834. Minimum and maximum of F_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.68E-03	7.49E-03	-7.13E-03	7.17E-03
A2	-7.68E-03	7.49E-03	-7.13E-03	7.17E-03
FD	—	—	—	—
L1	-42.7	-36.2	-42.6	-36.3
L3	-42.5	-36.3	-42.5	-36.3
L4	-53.4	231.	-31.3	222.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-418. Time history of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

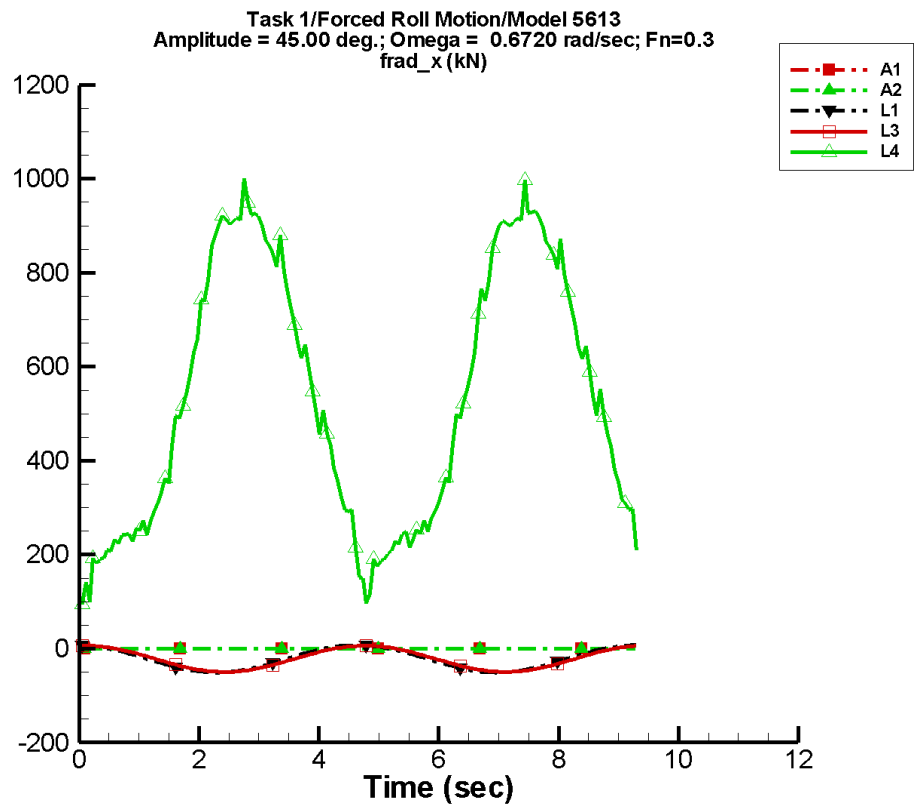
Table C–835. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.28E-06	1.46E-02	75	5.66E-06	31
A2	-1.28E-06	1.46E-02	75	5.66E-06	31
FD	—	—	—	—	—
L1	-32.8	1.19E-02	81	12.9	93
L3	-32.8	3.36E-02	113	12.4	82
L4	311.	1.64	-141	200.	-122
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–836. Minimum and maximum of F_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.54E-02	1.50E-02	-1.43E-02	1.43E-02
A2	-1.54E-02	1.50E-02	-1.43E-02	1.43E-02
FD	—	—	—	—
L1	-45.7	-19.9	-45.5	-20.1
L3	-45.2	-20.4	-45.0	-20.4
L4	6.61	525.	29.7	503.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-419. Time history of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

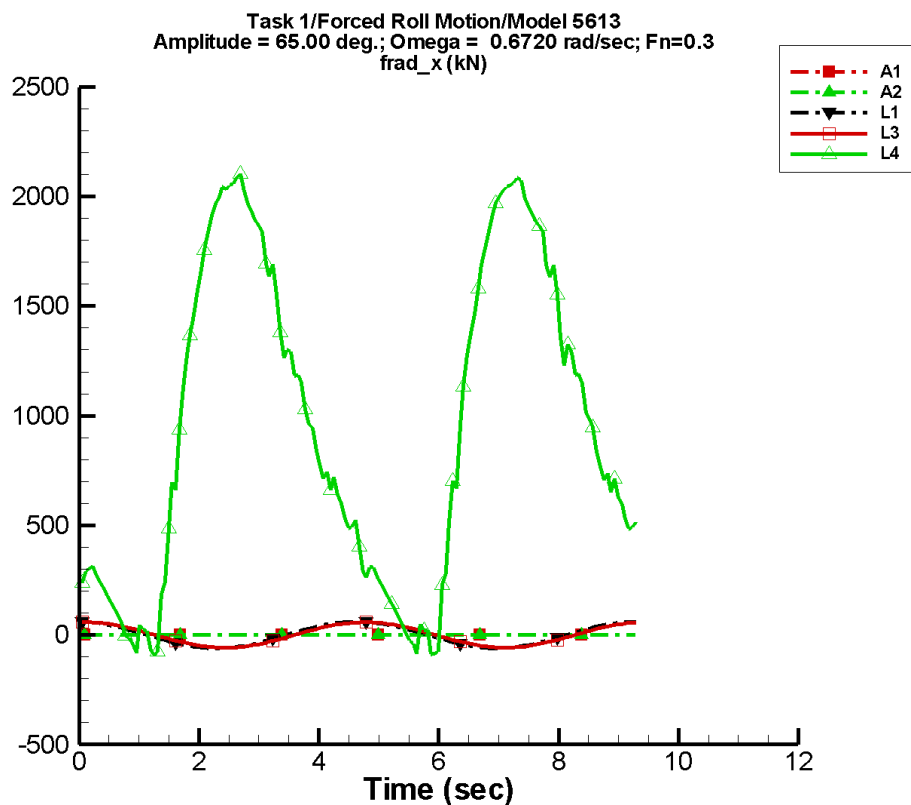
Table C–837. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.93E-06	2.18E-02	75	8.49E-06	31
A2	-1.93E-06	2.18E-02	75	8.49E-06	31
FD	—	—	—	—	—
L1	-21.7	1.77E-02	80	29.0	93
L3	-21.7	3.82E-02	109	27.8	82
L4	530.	1.60	41	387.	-127
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–838. Minimum and maximum of of F_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.30E-02	2.25E-02	-2.14E-02	2.15E-02
A2	-2.30E-02	2.25E-02	-2.14E-02	2.15E-02
FD	—	—	—	—
L1	-50.8	7.28	-50.2	6.84
L3	-49.6	6.17	-49.1	6.19
L4	94.8	1.00E+03	115.	932.
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from FREDYN, NFA and NSHIPMO.

Figure C-420. Time history of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

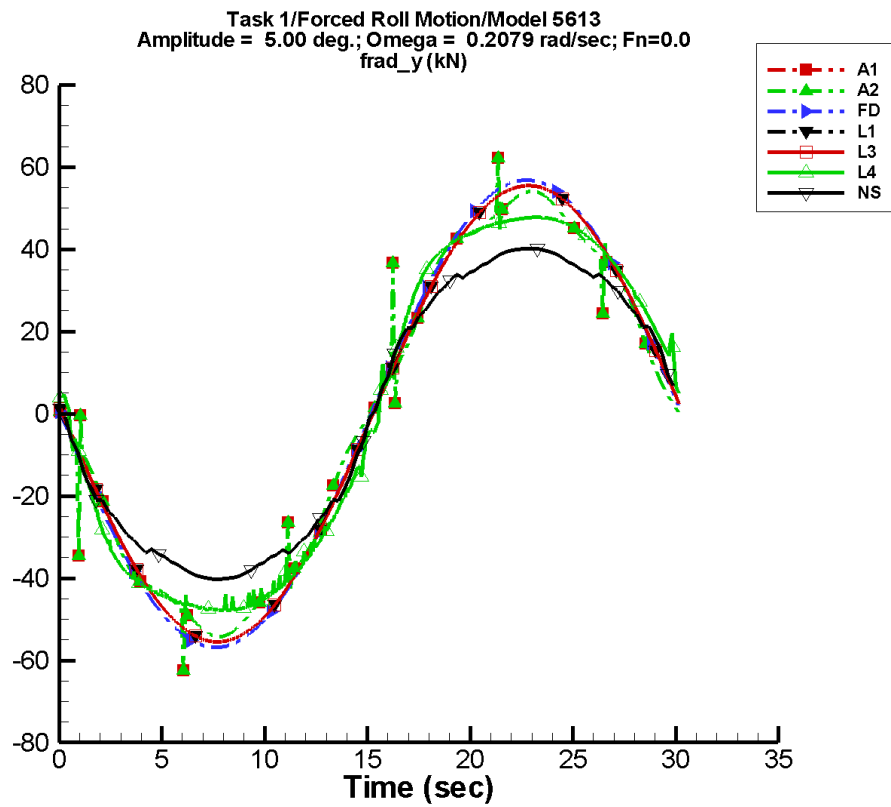
Table C–839. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.78E-06	3.15E-02	75	1.23E-05	31
A2	-2.78E-06	3.15E-02	75	1.23E-05	31
FD	—	—	—	—	—
L1	-5.19E-02	2.52E-02	79	60.5	93
L3	-4.08E-02	4.46E-02	104	58.1	82
L4	952.	7.92	1	996.	-128
NF	—	—	—	—	—
NS	—	—	—	—	—

Table C–840. Minimum and maximum of of F_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.33E-02	3.25E-02	-3.09E-02	3.11E-02
A2	-3.33E-02	3.25E-02	-3.09E-02	3.11E-02
FD	—	—	—	—
L1	-60.6	60.5	-59.6	59.5
L3	-58.1	58.1	-57.2	58.2
L4	-94.0	2.10E+03	-32.5	2.05E+03
NF	—	—	—	—
NS	—	—	—	—

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-421. Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

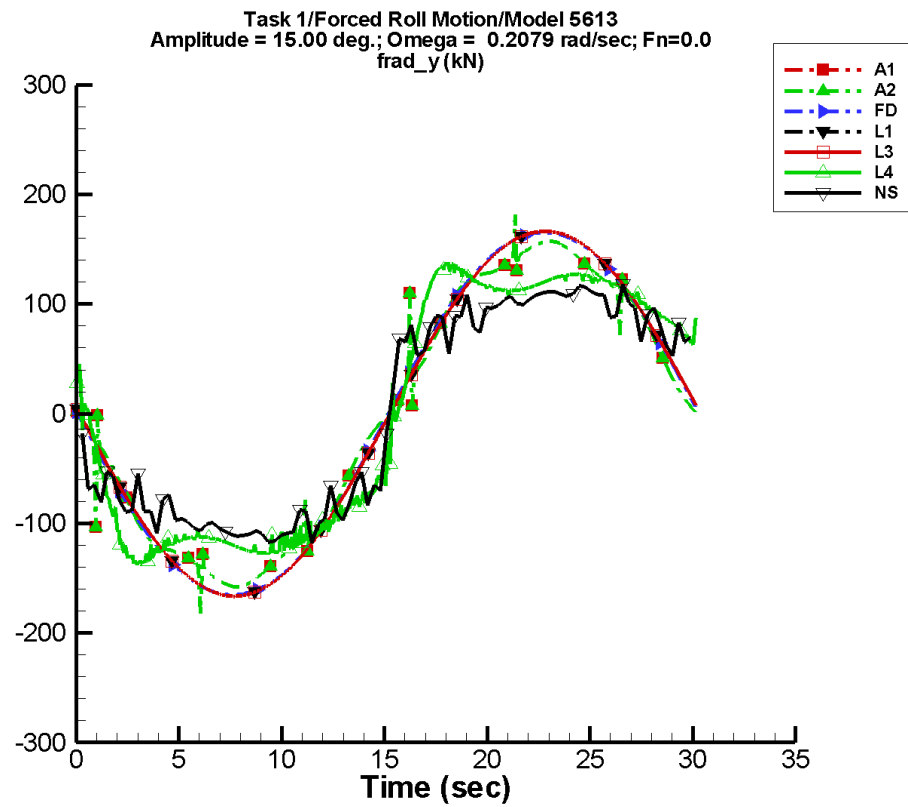
Table C–841. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	5.45E-02	52.6	180	3.84E-02	-171
A2	5.45E-02	52.6	180	3.84E-02	-171
FD	-1.63E-03	56.9	179	8.00E-03	-124
L1	5.89E-05	55.5	178	1.66E-04	125
L3	6.01E-05	55.5	178	1.69E-04	124
L4	-9.95E-02	52.2	178	1.21	-119
NF	—	—	—	—	—
NS	1.05E-03	42.6	178	2.08E-03	149

Table C–842. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-62.4	62.2	-54.1	54.0
A2	-62.4	62.2	-54.1	54.0
FD	-56.8	56.8	-56.8	56.8
L1	-55.5	55.5	-55.5	55.5
L3	-55.5	55.5	-55.5	55.5
L4	-48.1	47.9	-47.6	47.8
NF	—	—	—	—
NS	-40.2	40.2	-39.9	39.9

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-422. Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

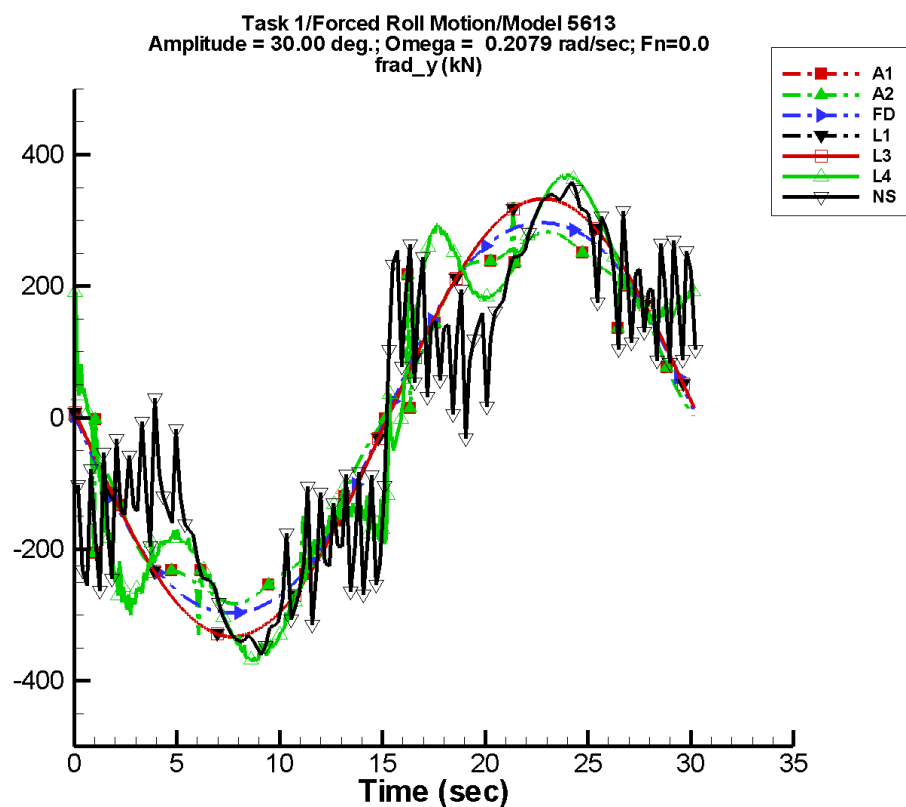
Table C–843. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.130	154.	180	0.273	-140
A2	0.130	154.	180	0.273	-140
FD	-4.39E-02	167.	179	0.215	-124
L1	-8.81E-05	166.	178	3.34E-04	148
L3	-6.63E-05	166.	178	3.37E-04	152
L4	-0.299	146.	178	7.04	-119
NF	—	—	—	—	—
NS	2.40E-02	124.	176	1.41E-02	-132

Table C–844. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-182.	181.	-157.	157.
A2	-182.	181.	-157.	157.
FD	-165.	165.	-165.	165.
L1	-166.	166.	-166.	166.
L3	-166.	166.	-166.	166.
L4	-140.	138.	-137.	135.
NF	—	—	—	—
NS	-118.	118.	-111.	111.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-423. Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

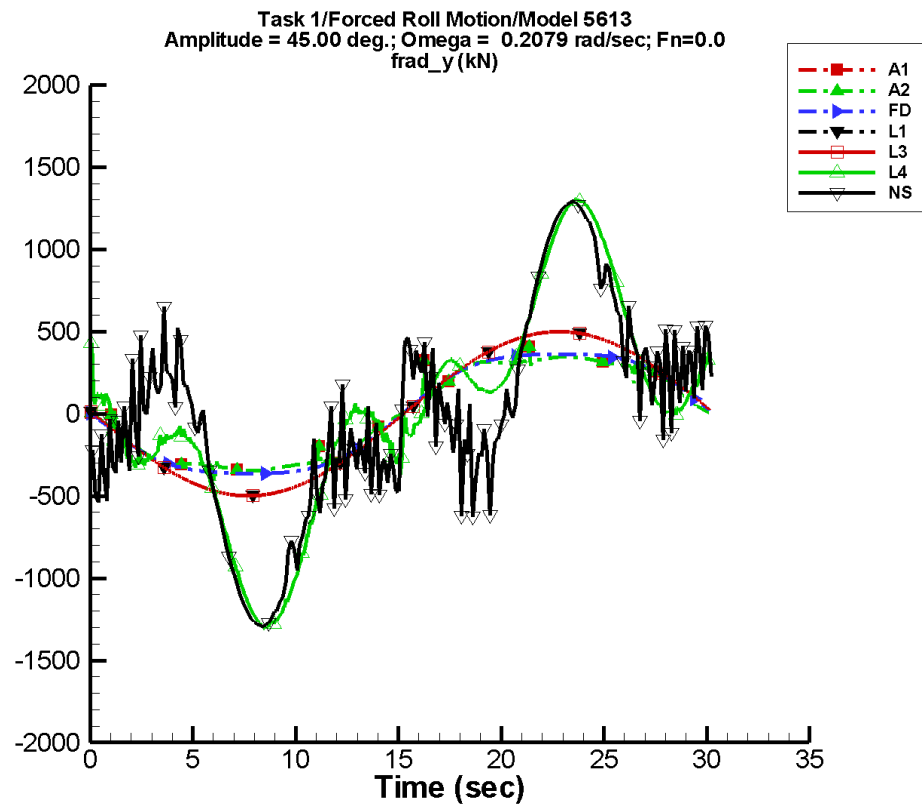
Table C–845. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.32E-02	285.	-180	1.72	-128
A2	4.32E-02	285.	-180	1.72	-128
FD	-0.345	308.	179	1.68	-123
L1	-9.26E-04	333.	178	7.11E-04	-150
L3	-9.40E-04	333.	178	7.04E-04	-151
L4	2.69	325.	175	4.32	-126
NF	—	—	—	—	—
NS	0.244	288.	170	0.167	-113

Table C–846. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-330.	328.	-282.	282.
A2	-330.	328.	-282.	282.
FD	-296.	296.	-296.	296.
L1	-333.	333.	-333.	333.
L3	-333.	333.	-333.	333.
L4	-371.	370.	-368.	367.
NF	—	—	—	—
NS	-360.	362.	-341.	344.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-424. Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

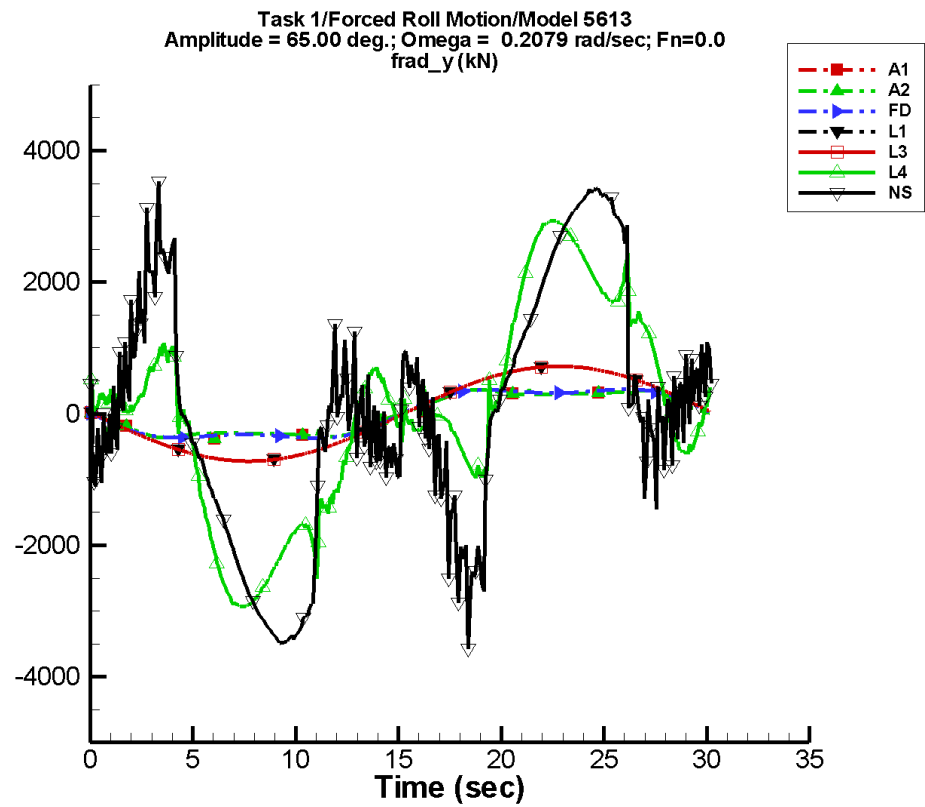
Table C–847. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.452	369.	-180	5.41	-124
A2	-0.452	369.	-180	5.41	-124
FD	-1.13	399.	179	5.49	-123
L1	-2.35E-03	499.	178	1.90E-03	-121
L3	-2.34E-03	499.	178	1.93E-03	-121
L4	21.1	768.	171	69.3	64
NF	—	—	—	—	—
NS	1.05	684.	160	1.14	-92

Table C–848. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-413.	408.	-346.	346.
A2	-413.	408.	-346.	346.
FD	-363.	363.	-363.	363.
L1	-499.	499.	-499.	499.
L3	-499.	499.	-499.	499.
L4	-1.31E+03	1.31E+03	-1.29E+03	1.30E+03
NF	—	—	—	—
NS	-1.30E+03	1.31E+03	-1.28E+03	1.29E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-425. Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

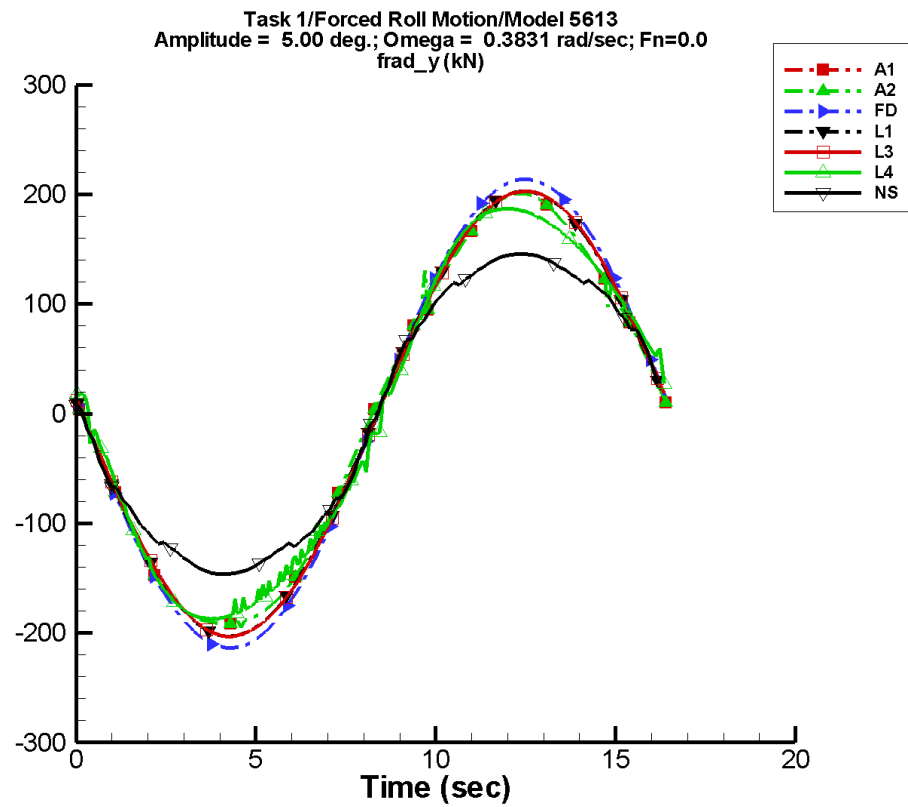
Table C–849. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.98	382.	-179	15.0	-123
A2	-1.98	382.	-179	15.0	-123
FD	-3.18	414.	180	15.5	-123
L1	-5.37E-03	721.	178	4.17E-03	-110
L3	-5.45E-03	721.	178	4.14E-03	-109
L4	54.7	1.78E+03	164	236.	60
NF	—	—	—	—	—
NS	0.950	1.70E+03	148	9.99	57

Table C–850. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-477.	459.	-364.	363.
A2	-477.	459.	-364.	363.
FD	-372.	372.	-371.	371.
L1	-721.	721.	-721.	721.
L3	-721.	721.	-721.	721.
L4	-2.93E+03	2.93E+03	-2.92E+03	2.92E+03
NF	—	—	—	—
NS	-3.58E+03	3.54E+03	-3.46E+03	3.44E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-426. Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

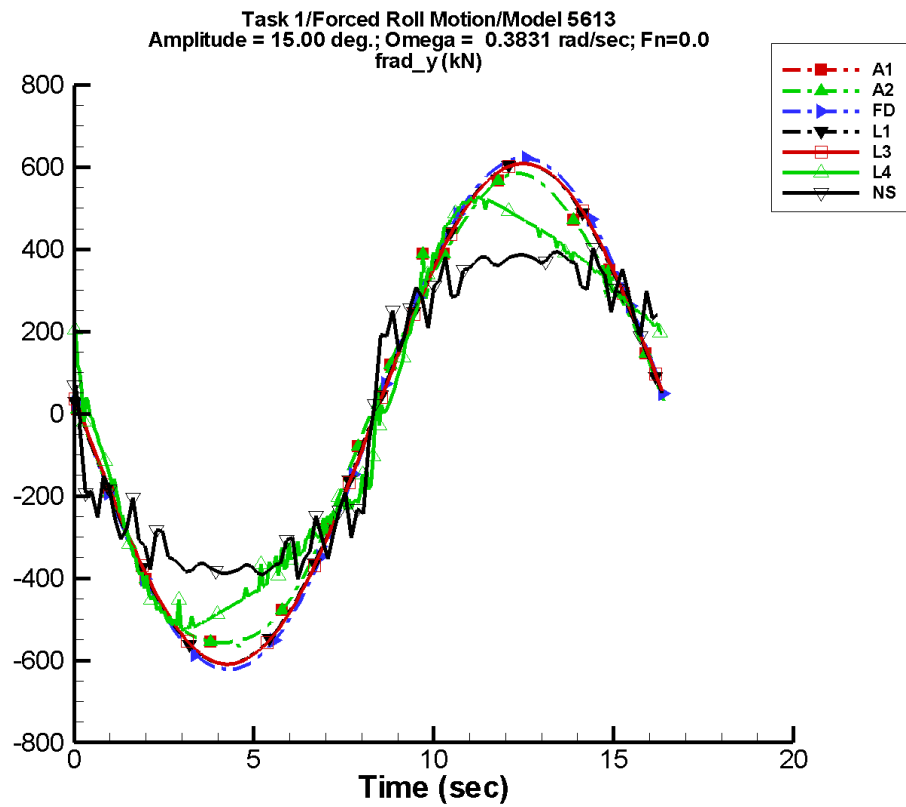
Table C–851. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.218	196.	178	0.496	-166
A2	0.218	196.	178	0.496	-166
FD	-5.50E-03	214.	176	4.08E-02	-108
L1	-6.48E-03	203.	177	1.87E-02	-39
L3	-6.21E-03	203.	176	1.85E-02	-41
L4	0.644	191.	176	1.42	-139
NF	—	—	—	—	—
NS	-4.22E-03	153.	177	1.97E-02	-10

Table C–852. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-203.	201.	-193.	200.
A2	-203.	201.	-193.	200.
FD	-214.	214.	-213.	213.
L1	-203.	203.	-203.	203.
L3	-203.	203.	-203.	203.
L4	-188.	187.	-187.	187.
NF	—	—	—	—
NS	-146.	146.	-145.	144.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-427. Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

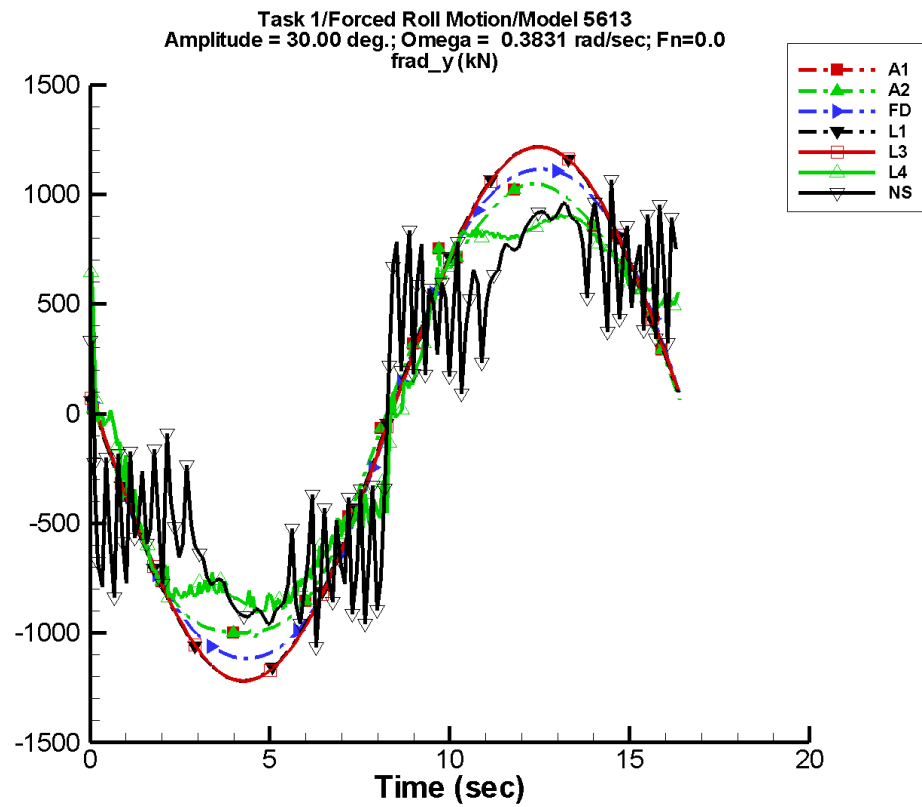
Table C–853. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.544	575.	178	2.02	-153
A2	0.544	575.	178	2.02	-153
FD	-0.146	627.	176	1.09	-108
L1	-2.03E-02	609.	177	5.67E-02	-40
L3	-1.93E-02	609.	176	5.59E-02	-42
L4	4.24	519.	177	5.61	-148
NF	—	—	—	—	—
NS	-4.62E-02	435.	175	4.64E-02	53

Table C–854. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-592.	585.	-562.	582.
A2	-592.	585.	-562.	582.
FD	-622.	622.	-620.	620.
L1	-610.	609.	-609.	608.
L3	-610.	609.	-609.	608.
L4	-525.	526.	-514.	520.
NF	—	—	—	—
NS	-403.	403.	-381.	381.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-428. Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

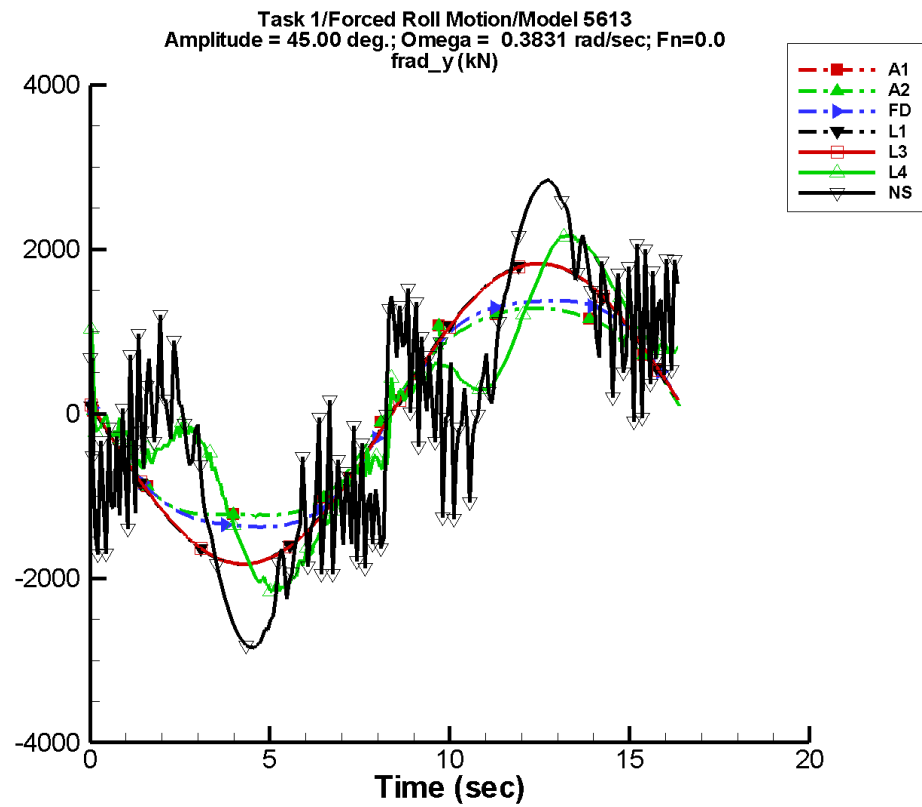
Table C–855. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.373	1.06E+03	178	8.03	-138
A2	0.373	1.06E+03	178	8.03	-138
FD	-1.14	1.16E+03	176	8.56	-108
L1	-4.29E-02	1.22E+03	177	0.115	-41
L3	-4.10E-02	1.22E+03	176	0.114	-43
L4	10.6	954.	173	4.09	179
NF	—	—	—	—	—
NS	-0.346	906.	171	0.347	106

Table C–856. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.07E+03	1.05E+03	-1.01E+03	1.04E+03
A2	-1.07E+03	1.05E+03	-1.01E+03	1.04E+03
FD	-1.12E+03	1.12E+03	-1.11E+03	1.11E+03
L1	-1.22E+03	1.22E+03	-1.22E+03	1.22E+03
L3	-1.22E+03	1.22E+03	-1.22E+03	1.22E+03
L4	-909.	907.	-882.	904.
NF	—	—	—	—
NS	-1.06E+03	1.07E+03	-920.	918.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-429. Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

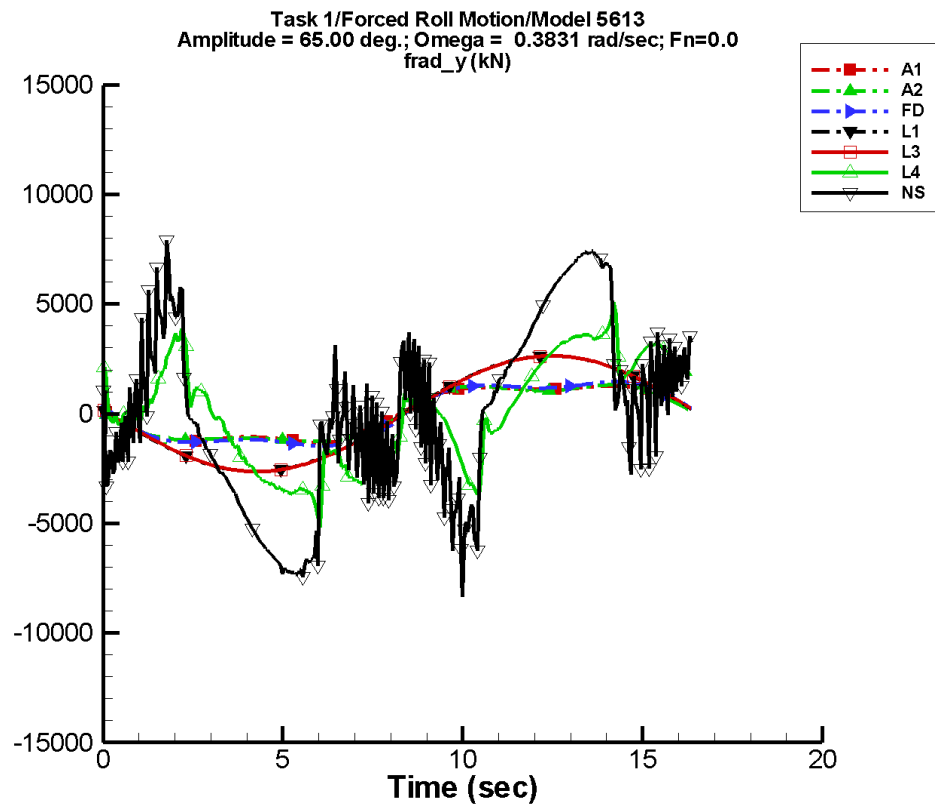
Table C–857. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.14	1.37E+03	178	21.9	-132
A2	-1.14	1.37E+03	178	21.9	-132
FD	-3.72	1.50E+03	176	27.9	-108
L1	-6.74E-02	1.83E+03	177	0.174	-42
L3	-6.47E-02	1.83E+03	176	0.172	-44
L4	25.6	1.55E+03	158	45.3	59
NF	—	—	—	—	—
NS	-1.66	1.81E+03	161	0.514	112

Table C–858. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.32E+03	1.28E+03	-1.24E+03	1.28E+03
A2	-1.32E+03	1.28E+03	-1.24E+03	1.28E+03
FD	-1.38E+03	1.38E+03	-1.37E+03	1.37E+03
L1	-1.83E+03	1.83E+03	-1.83E+03	1.83E+03
L3	-1.83E+03	1.83E+03	-1.83E+03	1.83E+03
L4	-2.16E+03	2.17E+03	-2.12E+03	2.17E+03
NF	—	—	—	—
NS	-2.85E+03	2.84E+03	-2.82E+03	2.81E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-430. Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

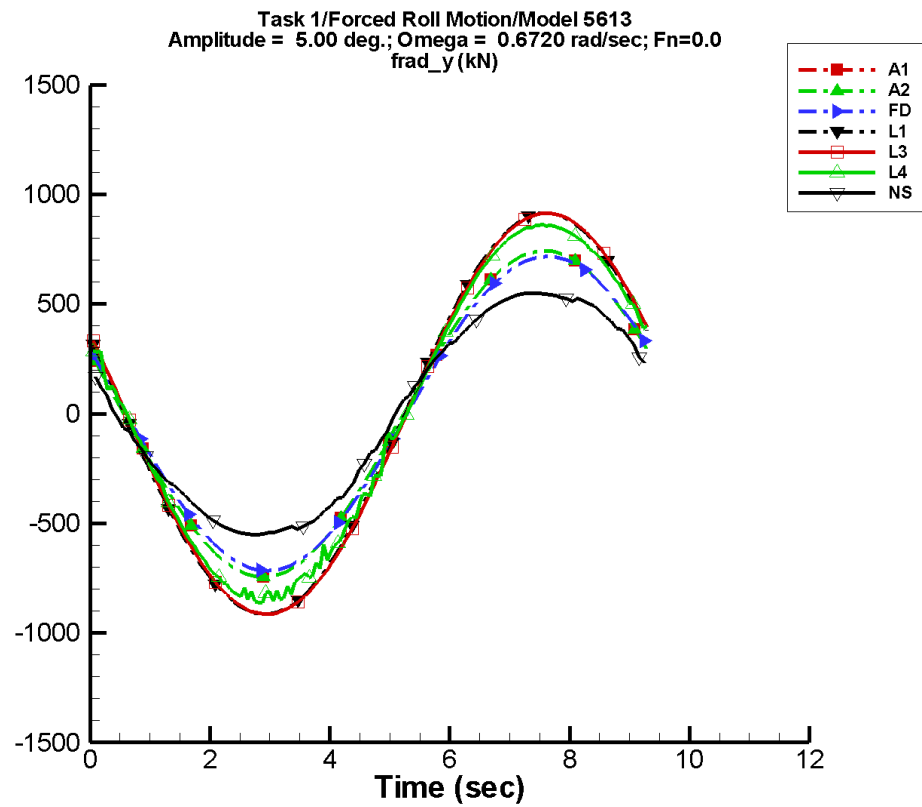
Table C–859. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-5.97	1.42E+03	179	56.9	-128
A2	-23.9	1.41E+03	179	49.1	-38
FD	-10.4	1.55E+03	175	78.4	-109
L1	-0.105	2.64E+03	177	0.257	-43
L3	-0.101	2.64E+03	176	0.253	-45
L4	66.6	2.77E+03	129	99.8	47
NF	—	—	—	—	—
NS	-0.196	3.87E+03	146	21.3	-124

Table C–860. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.33E+03	1.39E+03	-1.31E+03	1.25E+03
A2	-1.43E+03	1.39E+03	-1.29E+03	1.31E+03
FD	-1.46E+03	1.46E+03	-1.46E+03	1.45E+03
L1	-2.64E+03	2.64E+03	-2.64E+03	2.64E+03
L3	-2.64E+03	2.64E+03	-2.64E+03	2.64E+03
L4	-5.35E+03	5.07E+03	-3.89E+03	3.92E+03
NF	—	—	—	—
NS	-8.35E+03	7.91E+03	-7.25E+03	7.33E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-431. Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

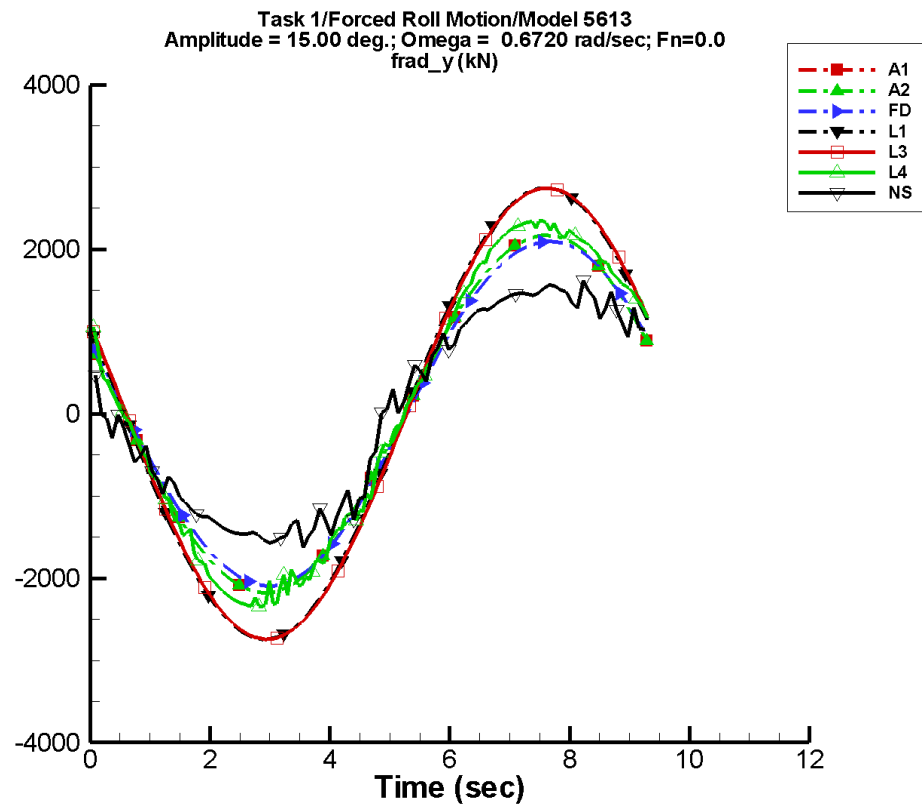
Table C–861. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.124	741.	158	1.25	68
A2	-0.124	741.	158	1.25	68
FD	-3.66E-02	717.	156	9.14E-02	-55
L1	-1.94E-02	915.	158	6.88E-02	-70
L3	-1.84E-02	915.	157	6.76E-02	-74
L4	5.61	856.	157	7.10	165
NF	—	—	—	—	—
NS	0.256	570.	161	0.330	-19

Table C–862. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-746.	743.	-737.	734.
A2	-746.	743.	-737.	734.
FD	-717.	716.	-708.	708.
L1	-915.	915.	-915.	911.
L3	-915.	915.	-917.	911.
L4	-861.	861.	-838.	857.
NF	—	—	—	—
NS	-552.	552.	-546.	545.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-432. Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

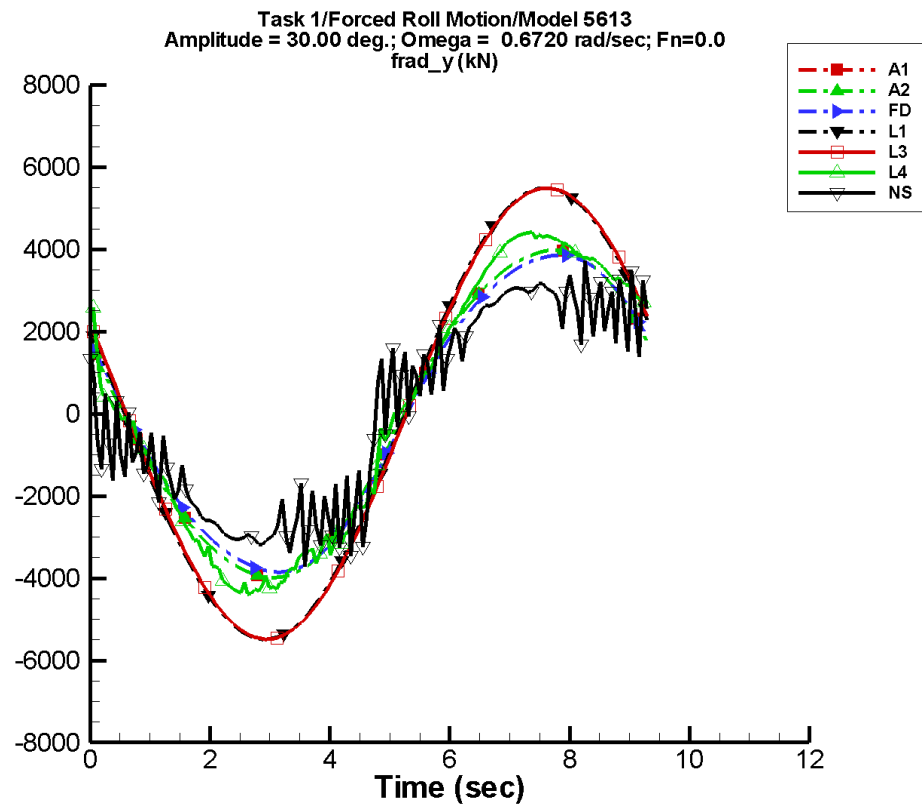
Table C–863. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.24	2.18E+03	158	2.96	99
A2	-1.24	2.18E+03	158	2.96	99
FD	-1.01	2.11E+03	156	2.44	-56
L1	-6.12E-02	2.74E+03	158	0.208	-70
L3	-5.74E-02	2.74E+03	157	0.205	-74
L4	26.2	2.32E+03	158	46.6	138
NF	—	—	—	—	—
NS	0.595	1.60E+03	161	1.28	-39

Table C–864. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.18E+03	2.17E+03	-2.15E+03	2.14E+03
A2	-2.18E+03	2.17E+03	-2.15E+03	2.14E+03
FD	-2.10E+03	2.10E+03	-2.07E+03	2.07E+03
L1	-2.74E+03	2.74E+03	-2.75E+03	2.73E+03
L3	-2.74E+03	2.74E+03	-2.75E+03	2.73E+03
L4	-2.35E+03	2.35E+03	-2.31E+03	2.32E+03
NF	—	—	—	—
NS	-1.62E+03	1.62E+03	-1.50E+03	1.50E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-433. Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

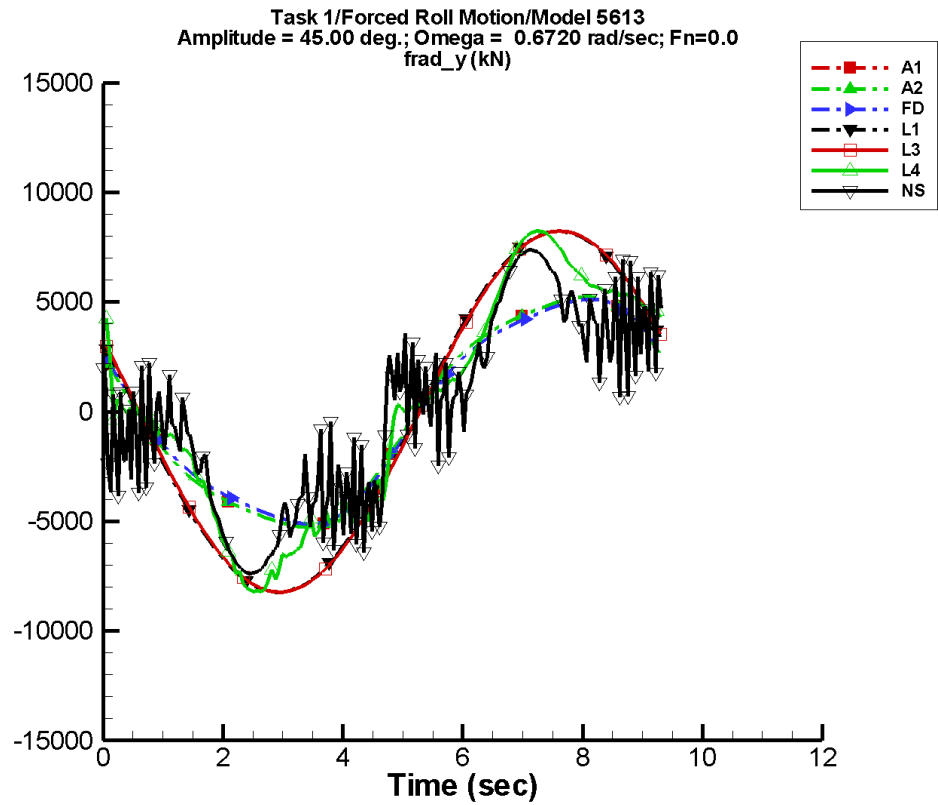
Table C–865. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-8.22	4.05E+03	157	13.3	171
A2	-8.22	4.05E+03	157	13.3	171
FD	-7.95	3.92E+03	155	19.1	-57
L1	-0.130	5.49E+03	158	0.423	-71
L3	-0.123	5.49E+03	157	0.417	-74
L4	65.9	4.34E+03	158	77.5	144
NF	—	—	—	—	—
NS	2.79E-02	3.15E+03	161	2.70	-56

Table C–866. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.99E+03	3.97E+03	-3.95E+03	3.93E+03
A2	-3.99E+03	3.97E+03	-3.95E+03	3.93E+03
FD	-3.85E+03	3.85E+03	-3.82E+03	3.81E+03
L1	-5.49E+03	5.49E+03	-5.49E+03	5.47E+03
L3	-5.49E+03	5.49E+03	-5.50E+03	5.47E+03
L4	-4.40E+03	4.41E+03	-4.31E+03	4.35E+03
NF	—	—	—	—
NS	-3.72E+03	3.71E+03	-3.06E+03	3.05E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-434. Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

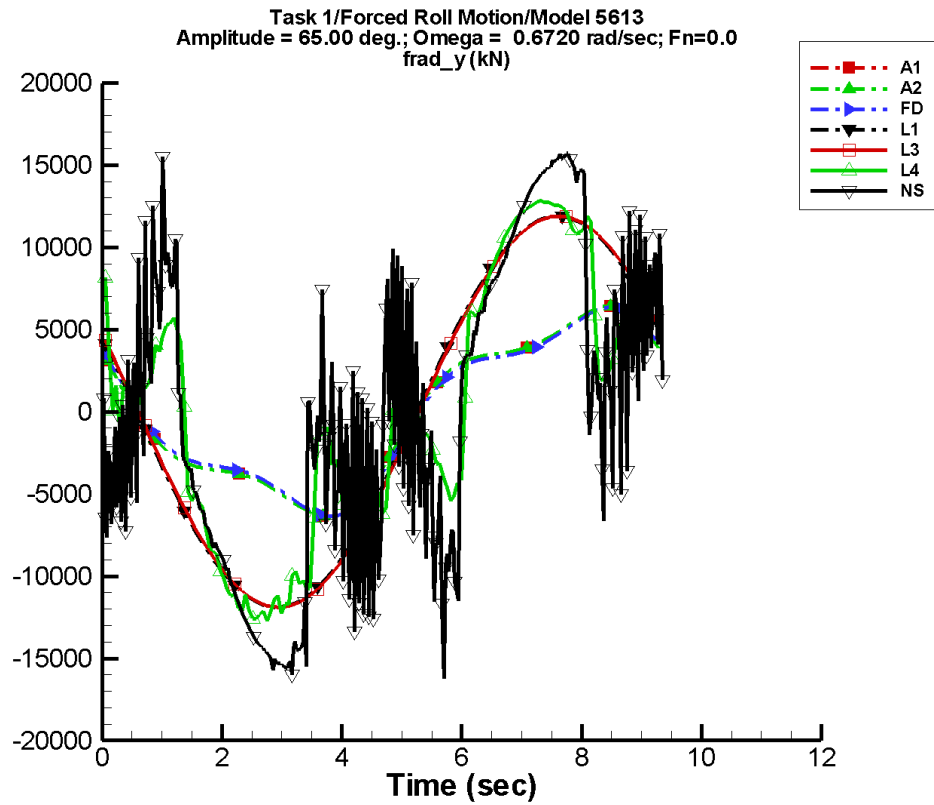
Table C–867. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-25.9	5.35E+03	155	48.8	-173
A2	-25.9	5.35E+03	155	48.8	-173
FD	-25.8	5.16E+03	153	62.4	-57
L1	-0.208	8.23E+03	158	0.647	-71
L3	-0.198	8.23E+03	157	0.637	-75
L4	127.	6.99E+03	156	153.	52
NF	—	—	—	—	—
NS	-4.33	5.48E+03	160	4.79	-42

Table C–868. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-5.24E+03	5.24E+03	-5.18E+03	5.17E+03
A2	-5.24E+03	5.24E+03	-5.18E+03	5.17E+03
FD	-5.12E+03	5.12E+03	-5.06E+03	5.06E+03
L1	-8.23E+03	8.23E+03	-8.24E+03	8.20E+03
L3	-8.23E+03	8.23E+03	-8.25E+03	8.20E+03
L4	-8.22E+03	8.23E+03	-8.02E+03	8.14E+03
NF	—	—	—	—
NS	-7.38E+03	7.37E+03	-7.31E+03	7.30E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-435. Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

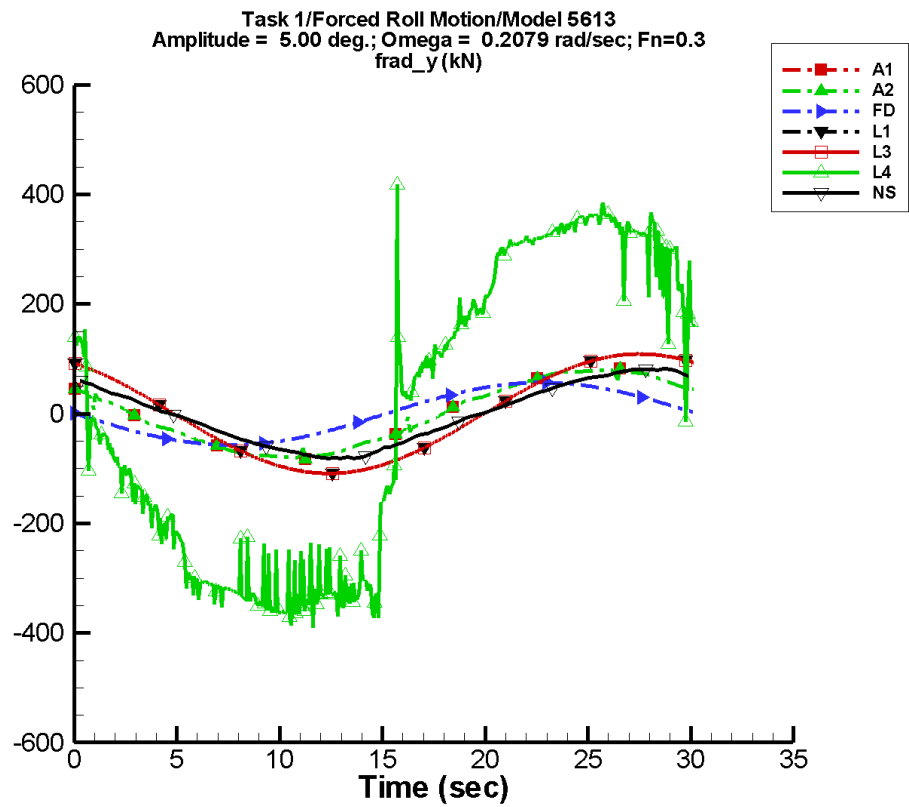
Table C–869. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-71.7	5.86E+03	151	147.	-168
A2	-71.7	5.86E+03	151	147.	-168
FD	-71.8	5.63E+03	148	176.	-58
L1	-0.323	1.19E+04	158	0.953	-72
L3	-0.306	1.19E+04	157	0.945	-76
L4	217.	1.03E+04	150	664.	45
NF	—	—	—	—	—
NS	-5.72	9.64E+03	152	37.9	-123

Table C–870. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.40E+03	6.40E+03	-6.22E+03	6.23E+03
A2	-6.40E+03	6.40E+03	-6.22E+03	6.23E+03
FD	-6.36E+03	6.36E+03	-6.19E+03	6.19E+03
L1	-1.19E+04	1.19E+04	-1.19E+04	1.18E+04
L3	-1.19E+04	1.19E+04	-1.19E+04	1.18E+04
L4	-1.27E+04	1.28E+04	-1.23E+04	1.27E+04
NF	—	—	—	—
NS	-1.63E+04	1.57E+04	-1.54E+04	1.55E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-436. Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

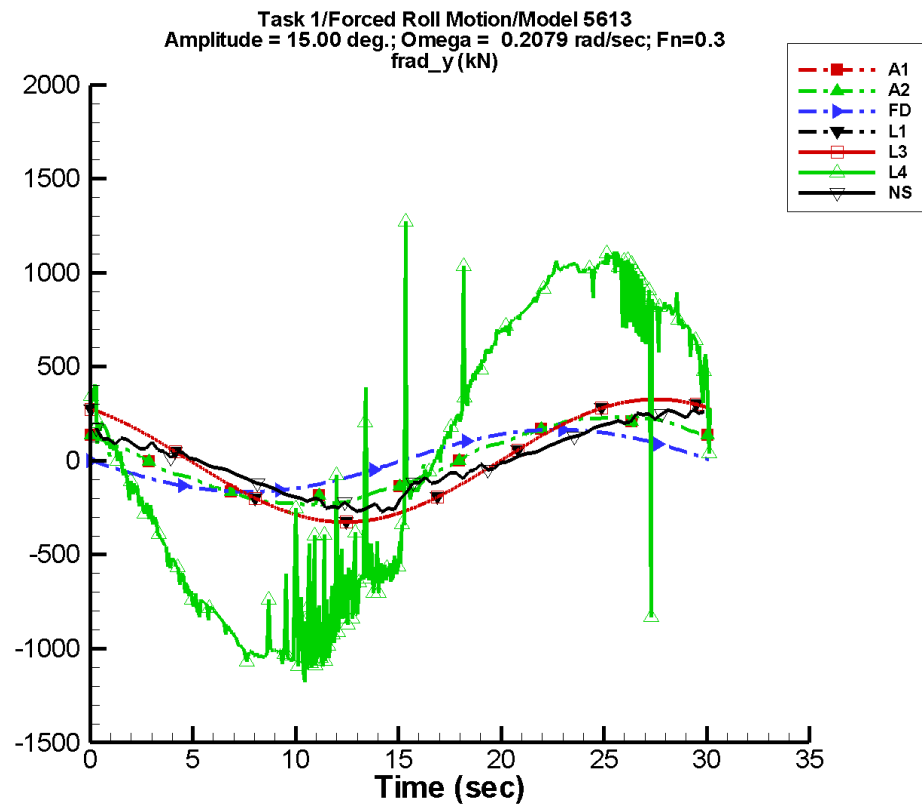
Table C–871. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.35E-02	78.9	146	5.17E-02	-171
A2	4.35E-02	78.9	146	5.17E-02	-171
FD	-1.63E-03	56.9	179	8.00E-03	-124
L1	7.32E-02	109.	122	2.06E-03	-107
L3	7.26E-02	109.	122	1.84E-03	151
L4	-3.44	373.	160	15.5	-107
NF	—	—	—	—	—
NS	-3.91E-03	76.2	123	1.00E-02	146

Table C–872. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-82.8	82.4	-79.0	79.1
A2	-82.8	82.4	-79.0	79.1
FD	-56.8	56.8	-56.8	56.8
L1	-109.	109.	-109.	109.
L3	-109.	109.	-109.	109.
L4	-392.	418.	-353.	365.
NF	—	—	—	—
NS	-81.7	81.7	-80.3	80.3

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-437. Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

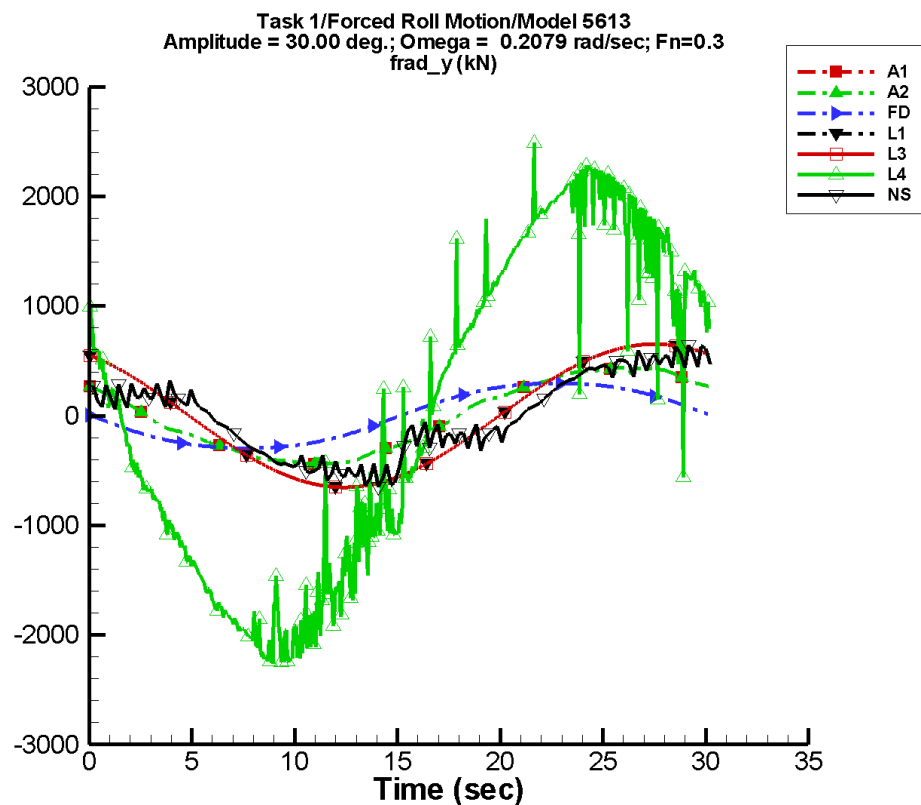
Table C–873. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	6.73E-02	232.	146	0.359	-167
A2	6.73E-02	232.	146	0.359	-167
FD	-4.39E-02	167.	179	0.215	-124
L1	7.33E-02	327.	122	2.32E-03	-104
L3	7.75E-02	327.	122	5.48E-03	104
L4	12.9	1.02E+03	162	30.5	162
NF	—	—	—	—	—
NS	-4.29E-02	224.	120	0.106	158

Table C–874. Minimum and maximum of of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-244.	244.	-232.	232.
A2	-244.	244.	-232.	232.
FD	-165.	165.	-165.	165.
L1	-327.	327.	-327.	327.
L3	-327.	327.	-327.	327.
L4	-1.18E+03	1.27E+03	-1.04E+03	1.08E+03
NF	—	—	—	—
NS	-272.	272.	-254.	258.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-438. Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

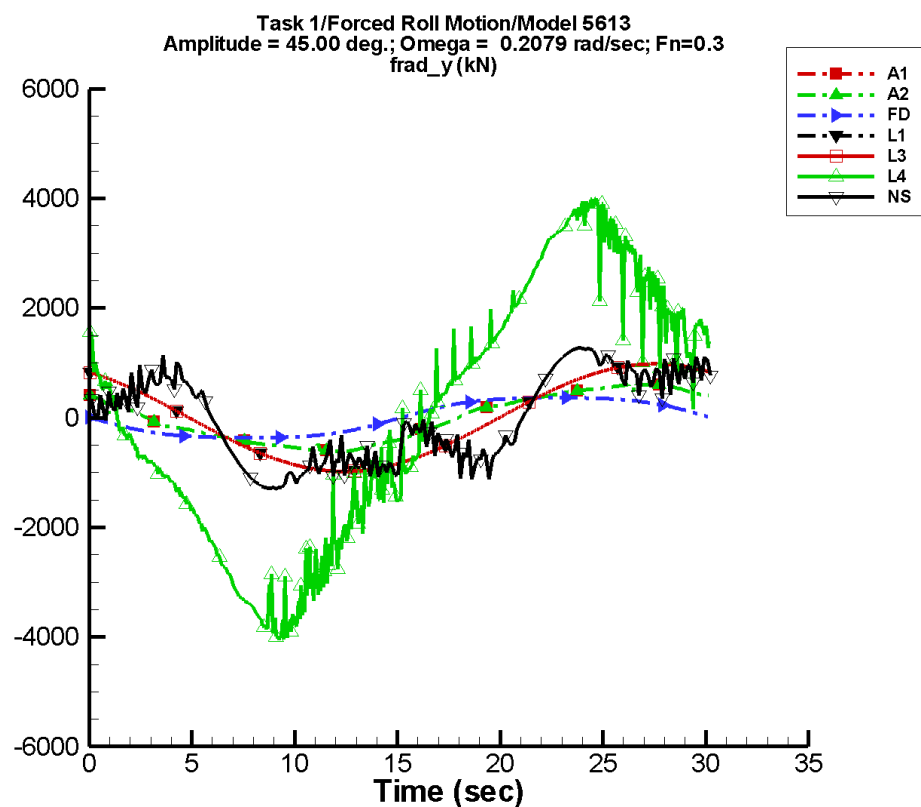
Table C–875. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-0.282	436.	145	2.08	-166
A2	-0.282	436.	145	2.08	-166
FD	-0.345	308.	179	1.68	-123
L1	7.24E-02	653.	122	4.13E-03	-109
L3	8.40E-02	653.	122	1.05E-02	101
L4	27.0	2.04E+03	163	51.9	135
NF	—	—	—	—	—
NS	-5.63E-02	487.	118	0.496	172

Table C–876. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-463.	463.	-434.	433.
A2	-463.	463.	-434.	433.
FD	-296.	296.	-296.	296.
L1	-653.	654.	-653.	653.
L3	-653.	654.	-653.	653.
L4	-2.27E+03	2.49E+03	-2.19E+03	2.21E+03
NF	—	—	—	—
NS	-650.	651.	-559.	588.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-439. Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

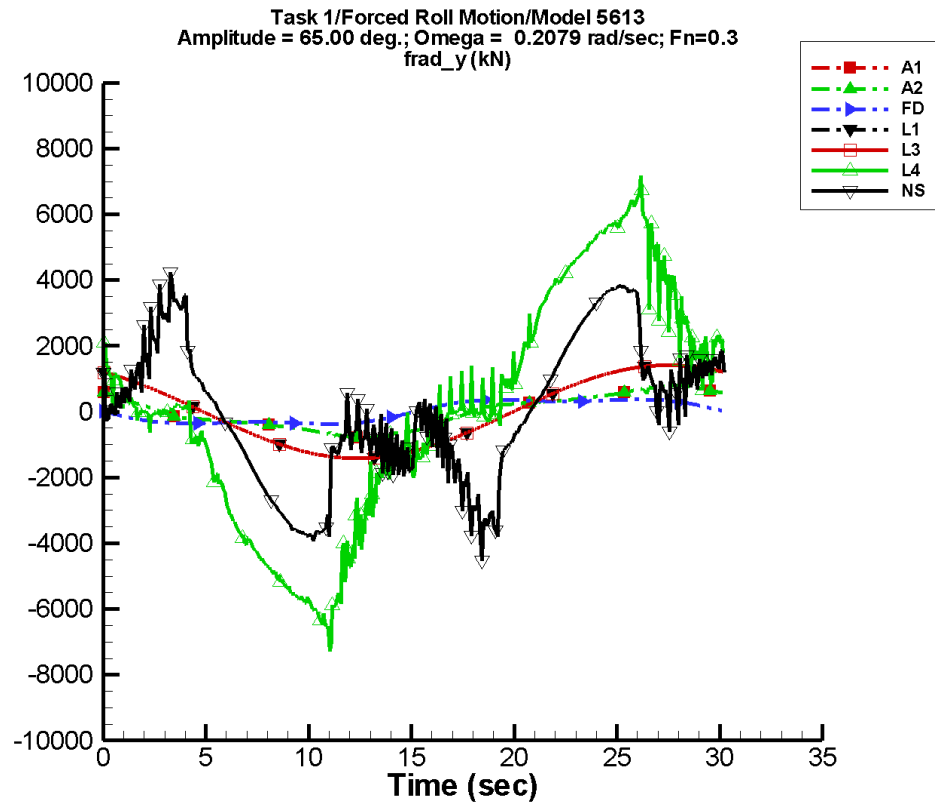
Table C–877. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.41	587.	142	6.35	-166
A2	-1.41	587.	142	6.35	-166
FD	-1.13	399.	179	5.49	-123
L1	7.01E-02	980.	122	6.61E-03	-109
L3	8.91E-02	980.	122	1.48E-02	100
L4	37.7	3.22E+03	161	89.6	74
NF	—	—	—	—	—
NS	0.123	976.	121	1.49	-143

Table C–878. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-630.	636.	-611.	609.
A2	-630.	636.	-611.	609.
FD	-363.	363.	-363.	363.
L1	-980.	980.	-980.	980.
L3	-980.	980.	-980.	980.
L4	-4.05E+03	4.00E+03	-3.88E+03	3.89E+03
NF	—	—	—	—
NS	-1.30E+03	1.28E+03	-1.27E+03	1.25E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-440. Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

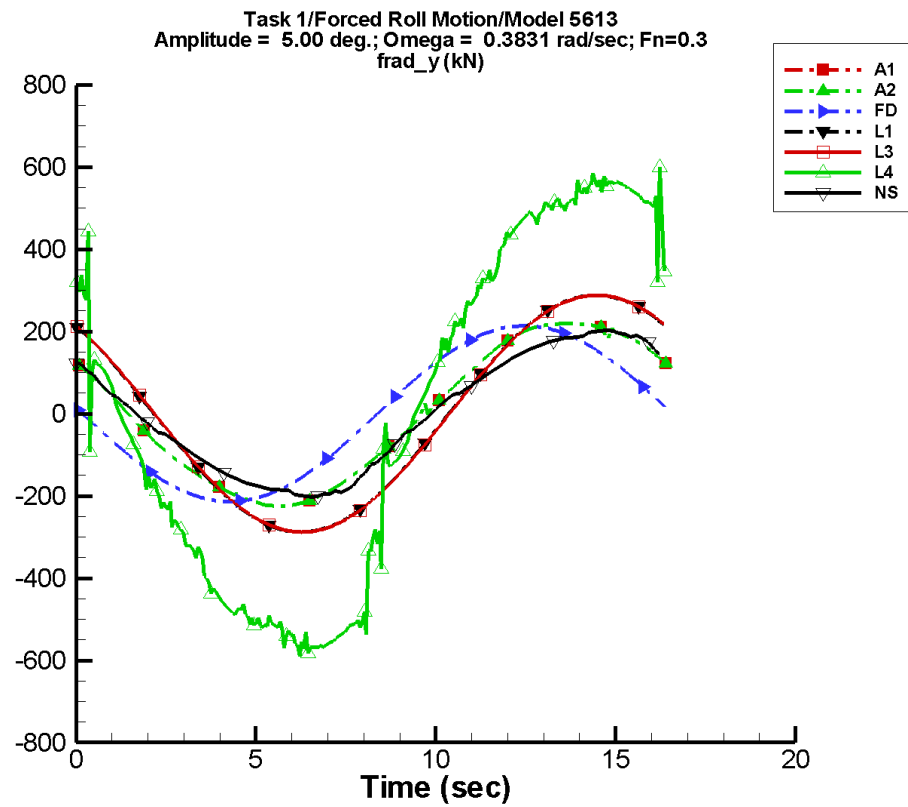
Table C–879. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-4.59	676.	136	17.5	-167
A2	-4.59	676.	136	17.5	-167
FD	-3.18	414.	180	15.5	-123
L1	6.70E-02	1.42E+03	122	9.51E-03	-100
L3	9.58E-02	1.42E+03	122	2.04E-02	98
L4	17.7	4.74E+03	152	251.	10
NF	—	—	—	—	—
NS	12.2	2.22E+03	121	17.0	-134

Table C–880. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-802.	805.	-796.	799.
A2	-802.	805.	-796.	799.
FD	-372.	372.	-371.	371.
L1	-1.42E+03	1.42E+03	-1.42E+03	1.42E+03
L3	-1.42E+03	1.42E+03	-1.42E+03	1.42E+03
L4	-7.29E+03	7.17E+03	-6.55E+03	6.54E+03
NF	—	—	—	—
NS	-4.53E+03	4.26E+03	-3.77E+03	3.90E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-441. Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

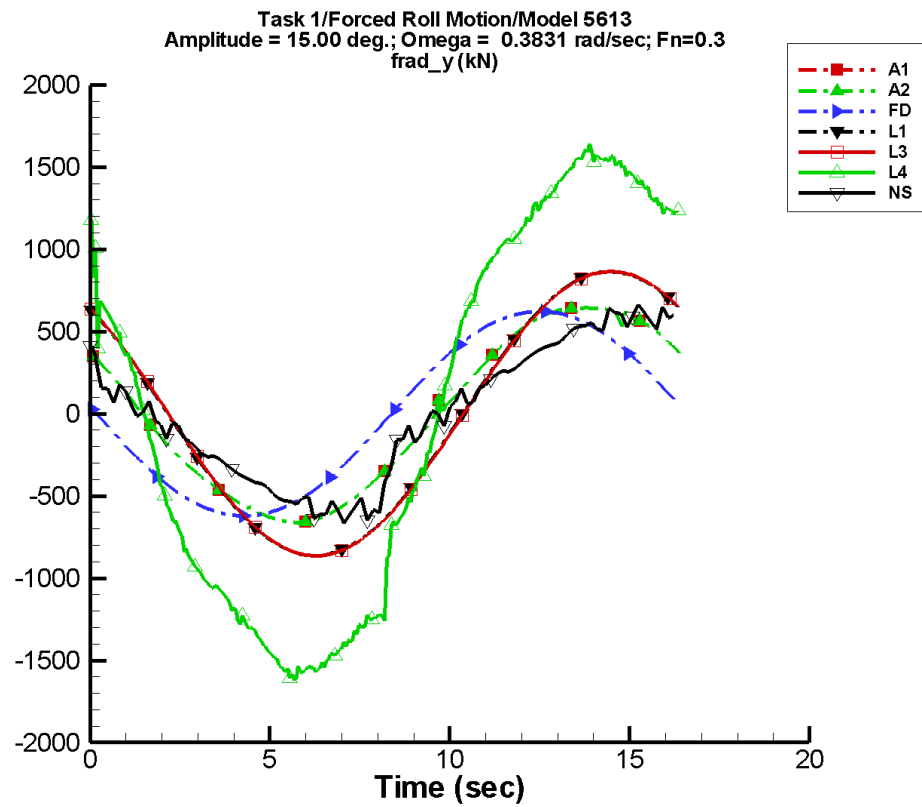
Table C–881. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.229	222.	148	0.611	-158
A2	0.229	222.	148	0.611	-158
FD	-5.50E-03	214.	176	4.08E-02	-108
L1	6.73E-02	288.	133	1.58E-03	172
L3	6.83E-02	288.	132	1.07E-03	54
L4	-5.09	566.	147	11.3	-64
NF	—	—	—	—	—
NS	-3.40E-02	197.	140	2.51E-02	14

Table C–882. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-225.	219.	-224.	219.
A2	-225.	219.	-224.	219.
FD	-214.	214.	-213.	213.
L1	-288.	288.	-287.	288.
L3	-288.	288.	-288.	288.
L4	-608.	599.	-568.	562.
NF	—	—	—	—
NS	-203.	203.	-198.	198.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-442. Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

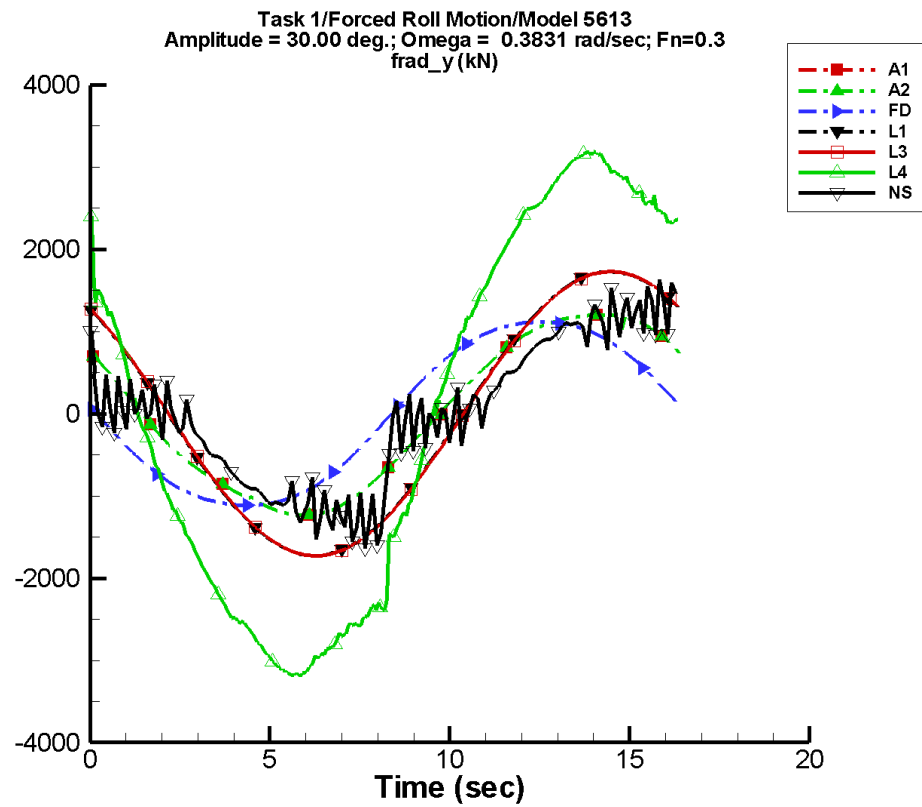
Table C–883. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.522	655.	147	2.40	-159
A2	0.522	655.	147	2.40	-159
FD	-0.146	627.	176	1.09	-108
L1	6.73E-02	864.	133	1.76E-03	-134
L3	7.25E-02	864.	132	4.27E-03	24
L4	-6.10	1.59E+03	146	12.2	-68
NF	—	—	—	—	—
NS	-0.466	559.	138	0.293	72

Table C–884. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-661.	643.	-658.	643.
A2	-661.	643.	-658.	643.
FD	-622.	622.	-620.	620.
L1	-864.	864.	-863.	863.
L3	-864.	864.	-863.	863.
L4	-1.62E+03	1.64E+03	-1.58E+03	1.58E+03
NF	—	—	—	—
NS	-666.	665.	-605.	603.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-443. Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

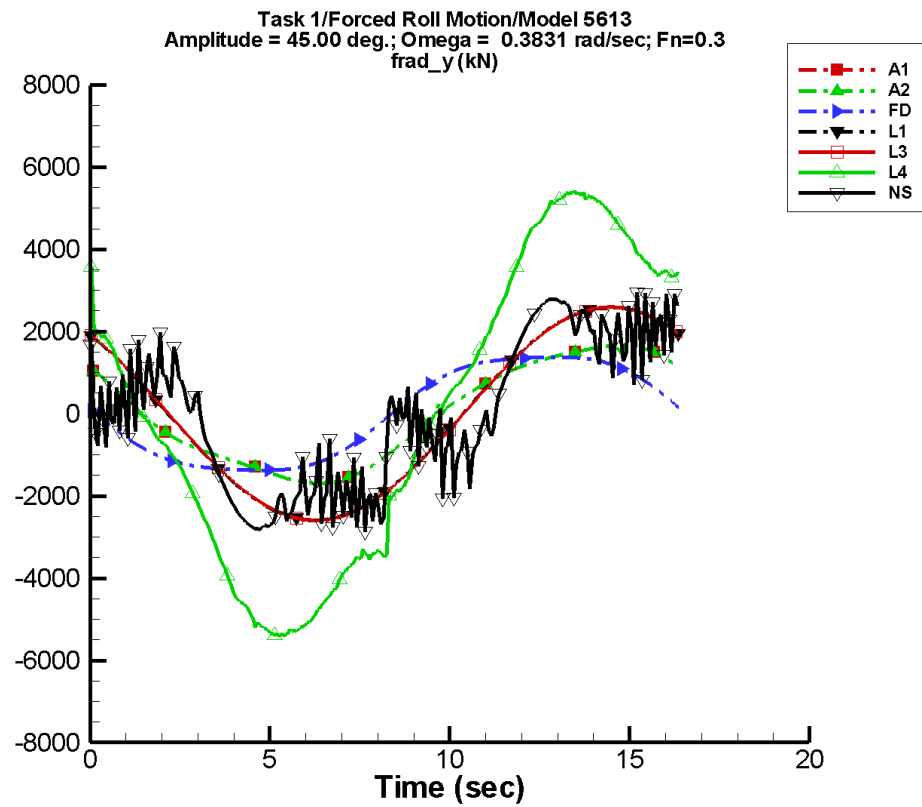
Table C–885. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-5.10E-02	1.23E+03	146	8.62	-162
A2	-5.10E-02	1.23E+03	146	8.62	-162
FD	-1.14	1.16E+03	176	8.56	-108
L1	6.36E-02	1.73E+03	133	6.73E-03	-112
L3	7.55E-02	1.73E+03	132	7.99E-03	1
L4	-8.73	3.15E+03	147	17.3	-76
NF	—	—	—	—	—
NS	-2.29	1.14E+03	135	1.54	83

Table C–886. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.24E+03	1.21E+03	-1.23E+03	1.20E+03
A2	-1.24E+03	1.21E+03	-1.23E+03	1.20E+03
FD	-1.12E+03	1.12E+03	-1.11E+03	1.11E+03
L1	-1.73E+03	1.73E+03	-1.73E+03	1.73E+03
L3	-1.73E+03	1.73E+03	-1.73E+03	1.73E+03
L4	-3.20E+03	3.19E+03	-3.17E+03	3.17E+03
NF	—	—	—	—
NS	-1.63E+03	1.63E+03	-1.34E+03	1.41E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-444. Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

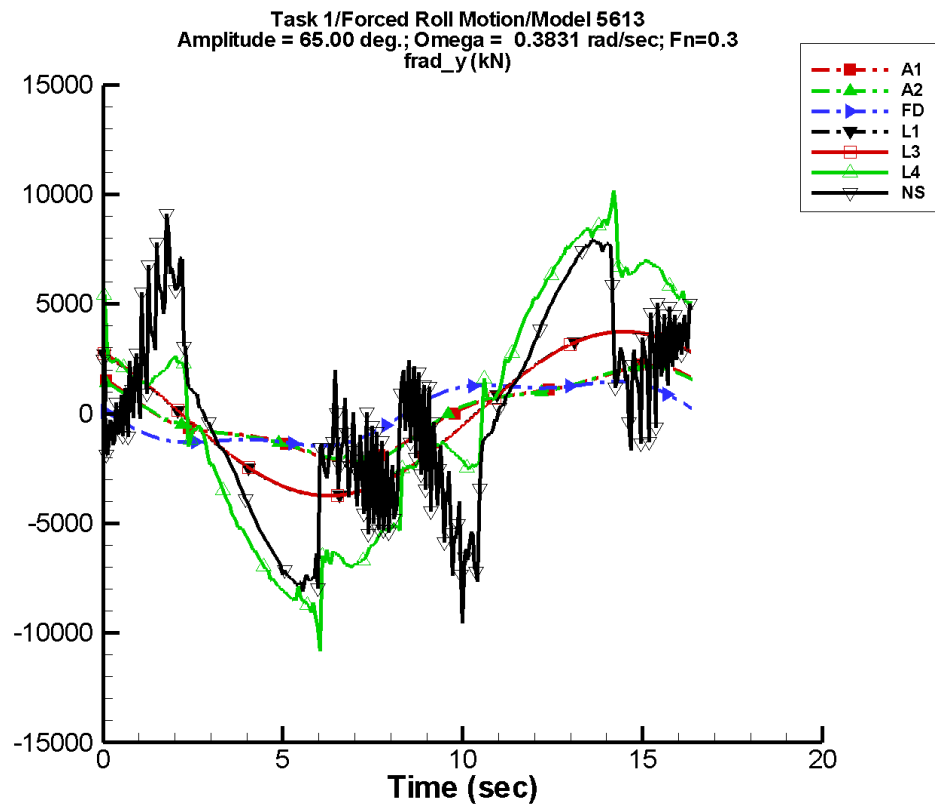
Table C–887. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-2.68	1.65E+03	144	22.0	-164
A2	-2.68	1.65E+03	144	22.0	-164
FD	-3.72	1.50E+03	176	27.9	-108
L1	5.70E-02	2.59E+03	133	1.17E-02	-102
L3	7.58E-02	2.59E+03	132	1.20E-02	-13
L4	4.14	5.04E+03	146	18.1	114
NF	—	—	—	—	—
NS	-6.58	2.17E+03	134	2.86	79

Table C–888. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.69E+03	1.72E+03	-1.68E+03	1.62E+03
A2	-1.69E+03	1.72E+03	-1.68E+03	1.62E+03
FD	-1.38E+03	1.38E+03	-1.37E+03	1.37E+03
L1	-2.59E+03	2.59E+03	-2.59E+03	2.59E+03
L3	-2.59E+03	2.59E+03	-2.59E+03	2.59E+03
L4	-5.42E+03	5.43E+03	-5.37E+03	5.36E+03
NF	—	—	—	—
NS	-2.88E+03	2.95E+03	-2.77E+03	2.75E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-445. Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

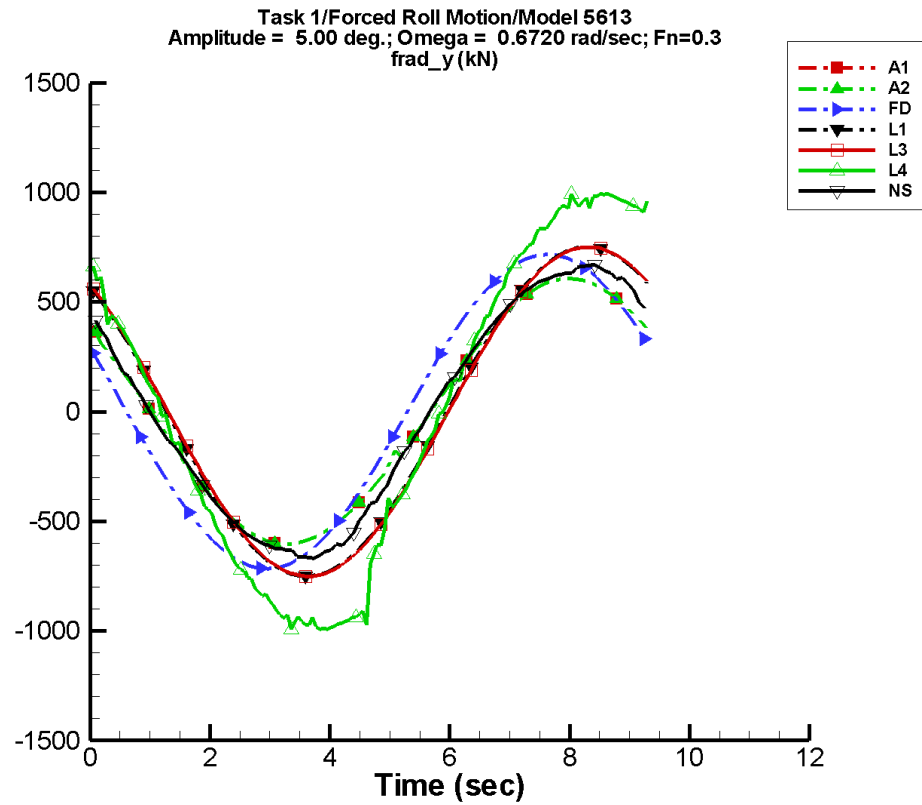
Table C–889. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-10.6	1.88E+03	137	54.8	-165
A2	-26.9	1.84E+03	137	53.8	-45
FD	-10.4	1.55E+03	175	78.4	-109
L1	4.56E-02	3.74E+03	133	2.48E-02	-96
L3	7.41E-02	3.74E+03	132	2.04E-02	-33
L4	-8.21	7.49E+03	137	62.2	59
NF	—	—	—	—	—
NS	-7.07	4.56E+03	127	18.7	-140

Table C–890. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.17E+03	2.23E+03	-2.15E+03	2.16E+03
A2	-2.26E+03	2.15E+03	-2.19E+03	2.13E+03
FD	-1.46E+03	1.46E+03	-1.46E+03	1.45E+03
L1	-3.74E+03	3.74E+03	-3.74E+03	3.74E+03
L3	-3.74E+03	3.74E+03	-3.74E+03	3.74E+03
L4	-1.15E+04	1.02E+04	-8.94E+03	8.90E+03
NF	—	—	—	—
NS	-9.62E+03	9.12E+03	-7.76E+03	7.88E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-446. Time history of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

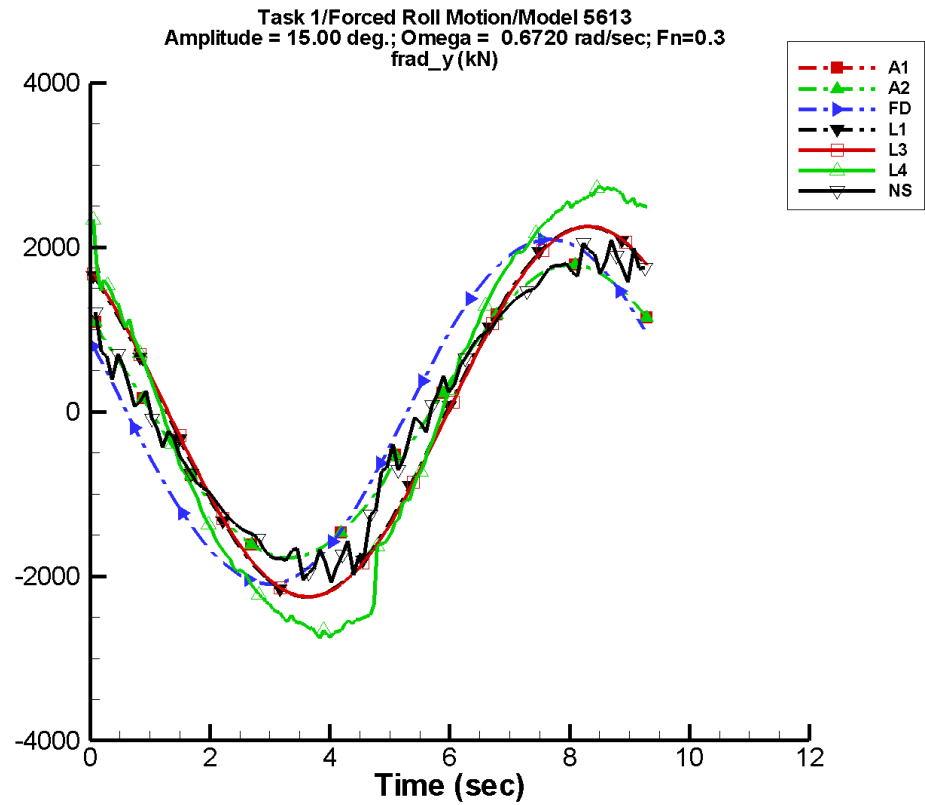
Table C–891. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	0.786	598.	142	2.19	97
A2	0.786	598.	142	2.19	97
FD	-3.66E-02	717.	156	9.14E-02	-55
L1	6.69E-02	751.	131	1.84E-03	-111
L3	6.42E-02	751.	130	2.74E-03	-110
L4	-1.88	968.	133	12.2	-124
NF	—	—	—	—	—
NS	0.229	659.	139	0.311	-21

Table C–892. Minimum and maximum of F_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-604.	607.	-597.	600.
A2	-604.	607.	-597.	600.
FD	-717.	716.	-708.	708.
L1	-751.	751.	-747.	748.
L3	-751.	751.	-748.	748.
L4	-993.	995.	-978.	980.
NF	—	—	—	—
NS	-670.	670.	-653.	654.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-447. Time history of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

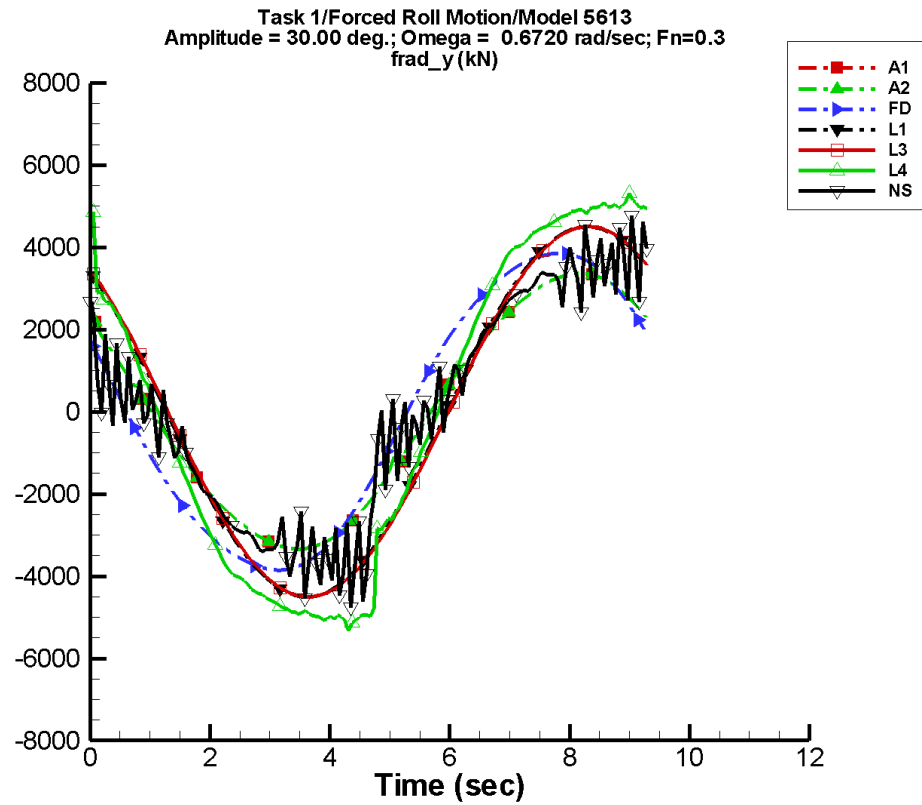
Table C–893. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.69	1.76E+03	141	7.04	109
A2	1.69	1.76E+03	141	7.04	109
FD	-1.01	2.11E+03	156	2.44	-56
L1	6.51E-02	2.25E+03	131	4.46E-03	-98
L3	6.20E-02	2.25E+03	130	1.05E-02	-94
L4	-1.58	2.70E+03	132	26.2	-167
NF	—	—	—	—	—
NS	0.243	1.86E+03	139	1.12	-40

Table C–894. Minimum and maximum of F_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.78E+03	1.79E+03	-1.76E+03	1.76E+03
A2	-1.78E+03	1.79E+03	-1.76E+03	1.76E+03
FD	-2.10E+03	2.10E+03	-2.07E+03	2.07E+03
L1	-2.25E+03	2.25E+03	-2.24E+03	2.24E+03
L3	-2.25E+03	2.25E+03	-2.24E+03	2.24E+03
L4	-2.75E+03	2.74E+03	-2.69E+03	2.69E+03
NF	—	—	—	—
NS	-2.08E+03	2.09E+03	-1.87E+03	1.88E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-448. Time history of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

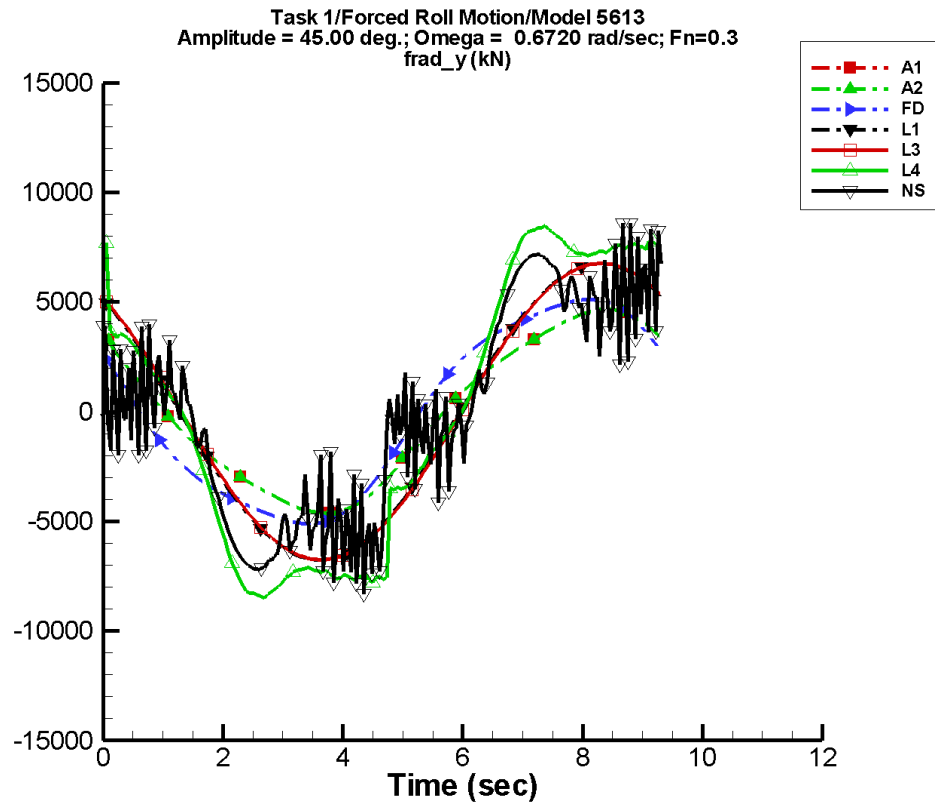
Table C–895. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-1.01	3.33E+03	140	20.6	137
A2	-1.01	3.33E+03	140	20.6	137
FD	-7.95	3.92E+03	155	19.1	-57
L1	5.54E-02	4.50E+03	131	1.53E-02	-98
L3	5.18E-02	4.50E+03	130	2.99E-02	-95
L4	-6.50	5.25E+03	135	51.6	-177
NF	—	—	—	—	—
NS	-1.59	3.59E+03	140	1.97	-46

Table C–896. Minimum and maximum of F_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-3.34E+03	3.37E+03	-3.30E+03	3.33E+03
A2	-3.34E+03	3.37E+03	-3.30E+03	3.33E+03
FD	-3.85E+03	3.85E+03	-3.82E+03	3.81E+03
L1	-4.50E+03	4.50E+03	-4.49E+03	4.49E+03
L3	-4.50E+03	4.50E+03	-4.49E+03	4.49E+03
L4	-5.33E+03	5.32E+03	-5.13E+03	5.12E+03
NF	—	—	—	—
NS	-4.75E+03	4.76E+03	-3.81E+03	3.90E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-449. Time history of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

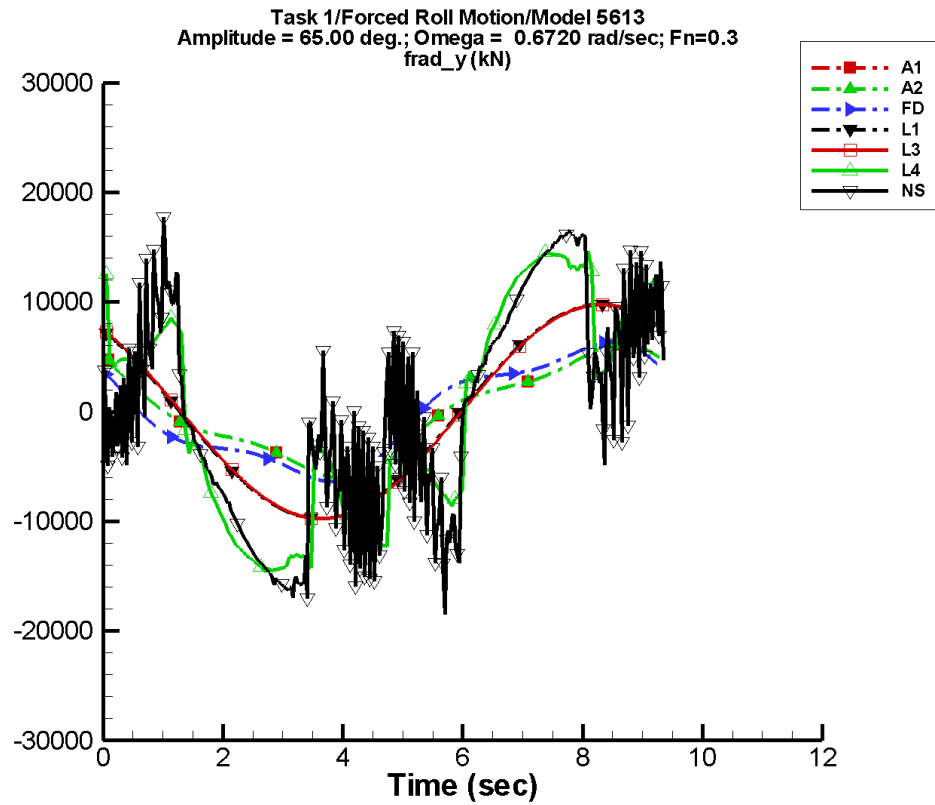
Table C–897. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-11.9	4.51E+03	138	52.3	153
A2	-11.9	4.51E+03	138	52.3	153
FD	-25.8	5.16E+03	153	62.4	-57
L1	3.89E-02	6.76E+03	131	3.40E-02	-98
L3	3.51E-02	6.76E+03	130	5.33E-02	-94
L4	-43.2	8.54E+03	137	119.	42
NF	—	—	—	—	—
NS	-7.99	6.08E+03	142	5.13	-28

Table C–898. Minimum and maximum of F_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.63E+03	4.67E+03	-4.56E+03	4.60E+03
A2	-4.63E+03	4.67E+03	-4.56E+03	4.60E+03
FD	-5.12E+03	5.12E+03	-5.06E+03	5.06E+03
L1	-6.76E+03	6.76E+03	-6.73E+03	6.73E+03
L3	-6.76E+03	6.76E+03	-6.73E+03	6.73E+03
L4	-8.54E+03	8.50E+03	-8.32E+03	8.32E+03
NF	—	—	—	—
NS	-8.32E+03	8.59E+03	-7.14E+03	7.13E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-450. Time history of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

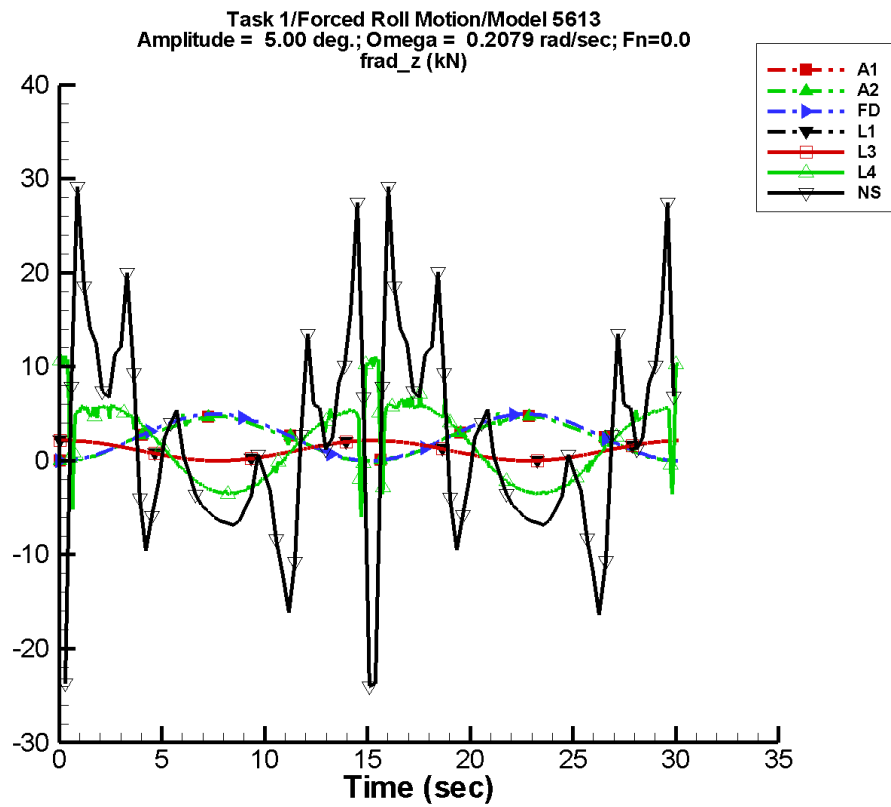
Table C–899. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	-43.8	5.31E+03	131	136.	163
A2	-43.8	5.31E+03	131	136.	163
FD	-71.8	5.63E+03	148	176.	-58
L1	7.72E-03	9.76E+03	131	6.82E-02	-96
L3	2.03E-03	9.76E+03	130	9.73E-02	-92
L4	-129.	1.30E+04	135	752.	38
NF	—	—	—	—	—
NS	-8.26	1.07E+04	137	34.8	-130

Table C–900. Minimum and maximum of F_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.09E+03	6.15E+03	-5.94E+03	5.98E+03
A2	-6.09E+03	6.15E+03	-5.94E+03	5.98E+03
FD	-6.36E+03	6.36E+03	-6.19E+03	6.19E+03
L1	-9.76E+03	9.76E+03	-9.72E+03	9.72E+03
L3	-9.76E+03	9.76E+03	-9.72E+03	9.72E+03
L4	-1.46E+04	1.46E+04	-1.43E+04	1.42E+04
NF	—	—	—	—
NS	-1.85E+04	1.77E+04	-1.61E+04	1.63E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-451. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

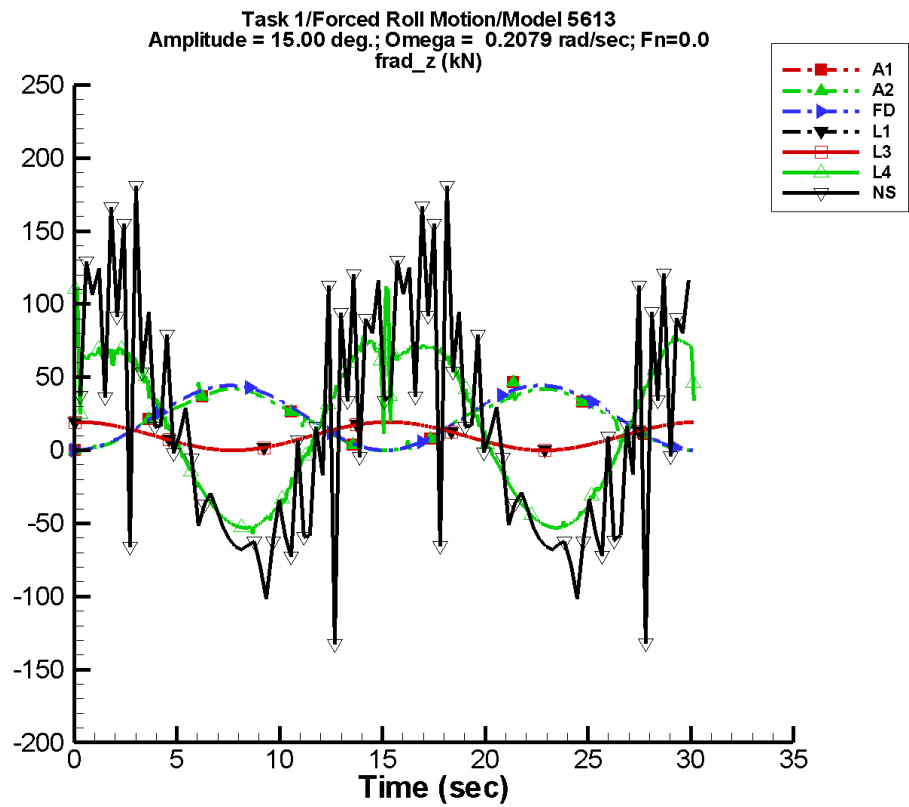
Table C–901. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.30	5.43E-03	174	2.30	-90
A2	2.30	5.43E-03	174	2.30	-90
FD	2.49	1.84E-05	3	2.49	-91
L1	1.08	3.86E-04	176	1.08	86
L3	1.08	3.84E-04	175	1.08	86
L4	1.91	0.140	-96	4.78	72
NF	—	—	—	—	—
NS	1.67	1.13E-02	-28	8.01	62

Table C–902. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.77E-04	5.27	-1.25E-02	4.73
A2	-4.77E-04	5.27	-1.25E-02	4.73
FD	-3.42E-04	4.97	-8.38E-03	4.96
L1	-1.78E-03	2.15	-8.35E-05	2.15
L3	-1.76E-03	2.15	-6.39E-05	2.15
L4	-5.96	11.2	-3.48	11.1
NF	—	—	—	—
NS	-24.1	29.2	-11.8	13.2

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-452. Time history of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

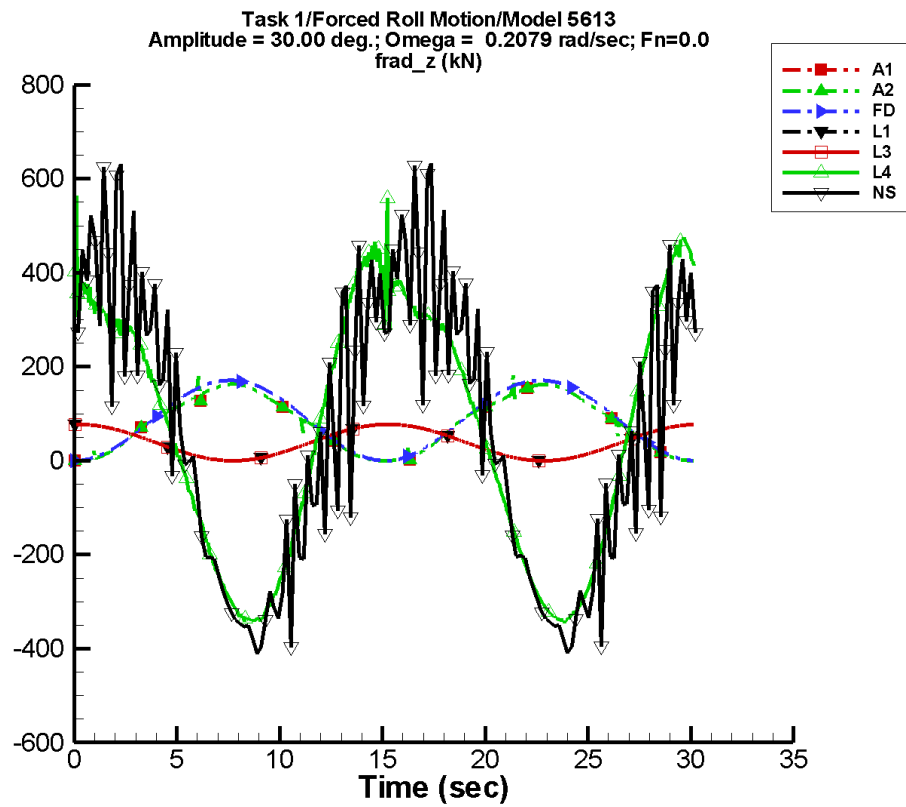
Table C–903. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	20.5	4.41E-02	174	20.4	-90
A2	20.5	4.41E-02	174	20.4	-90
FD	22.2	1.54E-03	4	22.1	-91
L1	9.68	1.17E-03	175	9.69	86
L3	9.68	1.17E-03	175	9.69	86
L4	15.6	1.13	-131	64.9	73
NF	—	—	—	—	—
NS	14.7	0.169	-14	86.1	60

Table C–904. Minimum and maximum of of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.76E-03	46.9	-0.112	42.1
A2	-4.76E-03	46.9	-0.112	42.1
FD	-3.08E-03	44.3	-7.42E-02	44.2
L1	-1.36E-02	19.4	1.73E-03	19.4
L3	-1.35E-02	19.4	1.76E-03	19.4
L4	-57.1	112.	-53.1	91.7
NF	—	—	—	—
NS	-134.	181.	-69.5	98.2

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-453. Time history of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

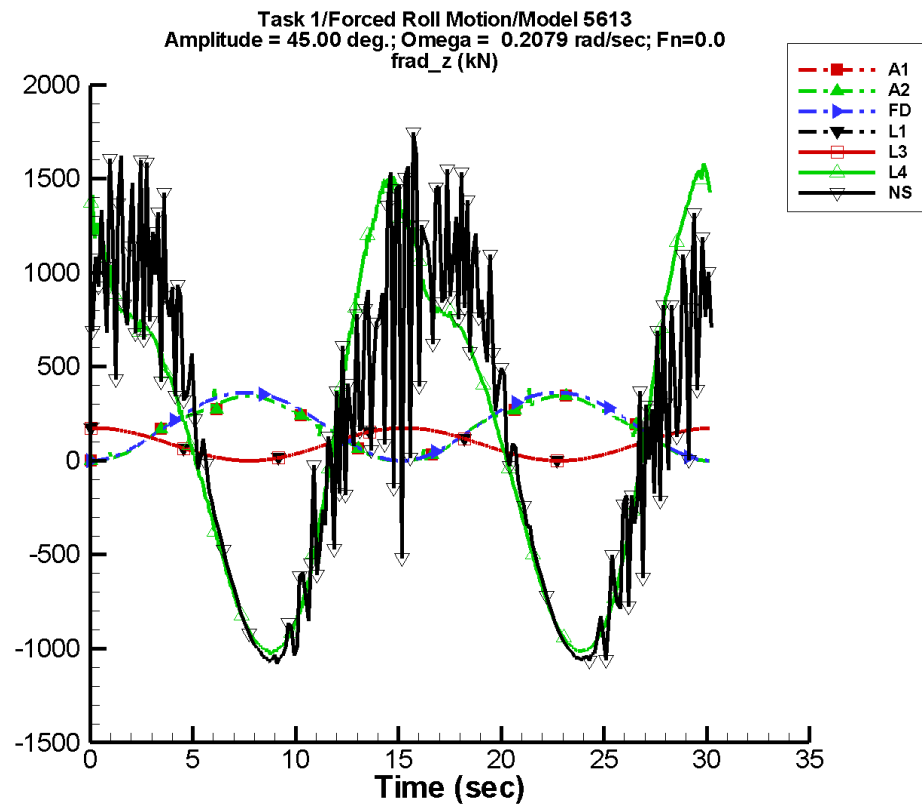
Table C–905. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	80.1	0.158	172	79.0	-90
A2	80.1	0.158	172	79.0	-90
FD	86.6	2.42E-02	4	85.6	-91
L1	38.7	2.32E-03	174	38.8	86
L3	38.7	2.33E-03	174	38.8	86
L4	60.1	7.54	-117	363.	74
NF	—	—	—	—	—
NS	57.8	0.886	-15	397.	59

Table C–906. Minimum and maximum of of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.95E-02	182.	-0.432	163.
A2	-1.95E-02	182.	-0.432	163.
FD	-1.23E-02	171.	-0.281	171.
L1	-5.19E-02	77.5	9.34E-03	77.5
L3	-5.19E-02	77.5	9.22E-03	77.5
L4	-353.	563.	-340.	470.
NF	—	—	—	—
NS	-415.	633.	-366.	436.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-454. Time history of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

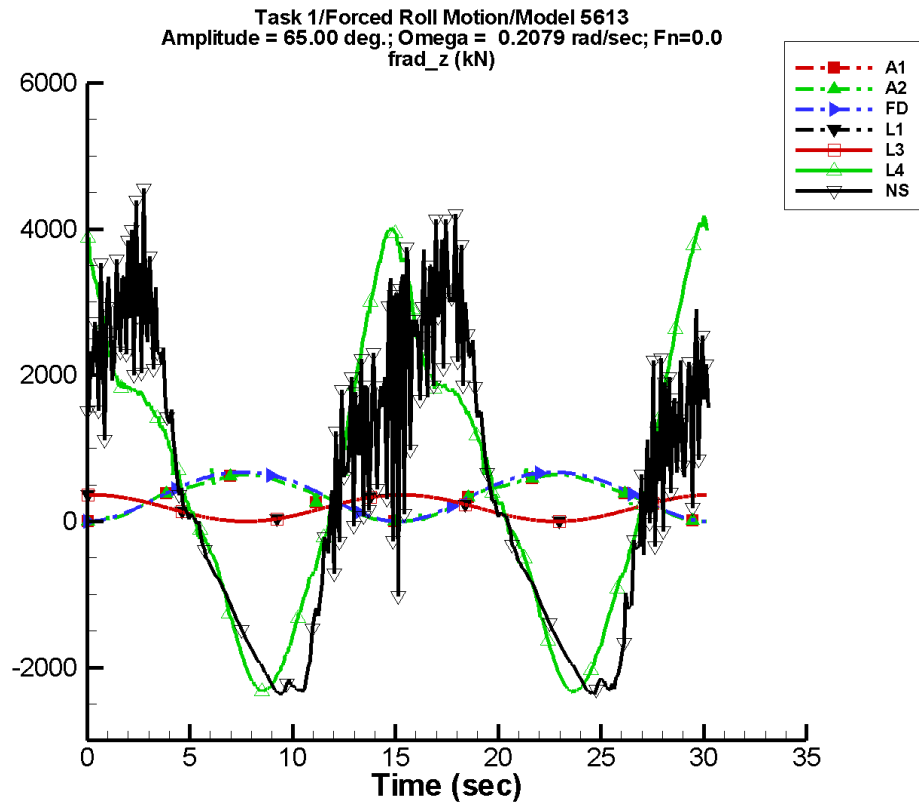
Table C–907. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	172.	0.302	169	168.	-90
A2	172.	0.302	169	168.	-90
FD	186.	0.119	3	182.	-91
L1	87.1	3.43E-03	172	87.2	86
L3	87.1	3.41E-03	172	87.2	86
L4	164.	25.2	-118	1.10E+03	75
NF	—	—	—	—	—
NS	146.	2.48	-24	1.08E+03	58

Table C–908. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-4.42E-02	386.	-0.916	345.
A2	-4.42E-02	386.	-0.916	345.
FD	-2.77E-02	363.	-0.574	362.
L1	-0.115	174.	2.25E-02	174.
L3	-0.115	174.	2.26E-02	174.
L4	-1.03E+03	1.58E+03	-1.02E+03	1.54E+03
NF	—	—	—	—
NS	-1.08E+03	1.75E+03	-1.06E+03	1.12E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-455. Time history of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

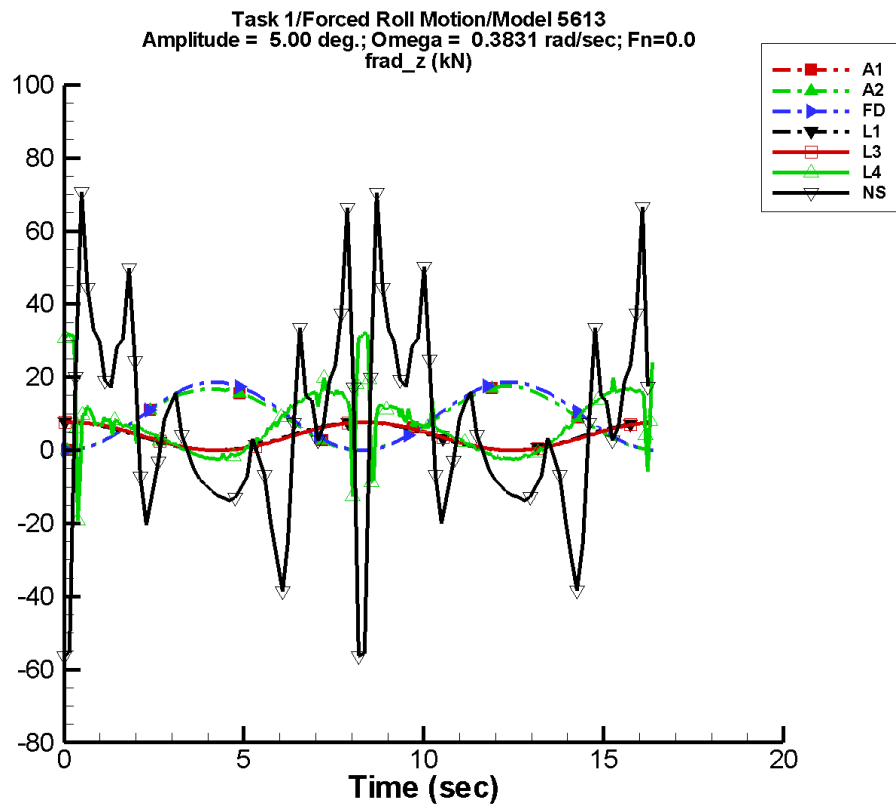
Table C–909. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	330.	0.436	160	310.	-90
A2	330.	0.436	160	310.	-90
FD	356.	0.493	3	336.	-91
L1	182.	5.01E-03	171	182.	86
L3	182.	5.10E-03	170	182.	86
L4	531.	48.6	-133	2.51E+03	74
NF	—	—	—	—	—
NS	363.	6.17	-4	2.53E+03	57

Table C–910. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-9.27E-02	720.	-1.70	639.
A2	-9.27E-02	720.	-1.70	639.
FD	-5.78E-02	672.	-0.973	671.
L1	-0.238	364.	4.93E-02	364.
L3	-0.237	364.	4.96E-02	364.
L4	-2.33E+03	4.18E+03	-2.32E+03	4.08E+03
NF	—	—	—	—
NS	-2.40E+03	4.56E+03	-2.33E+03	3.24E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-456. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

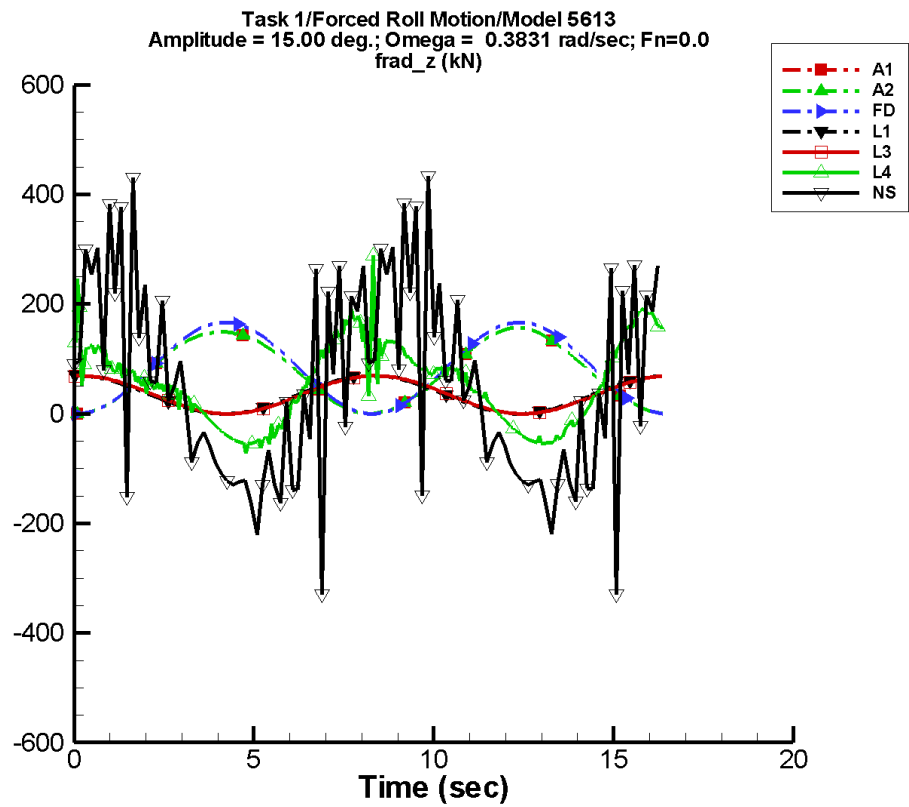
Table C–911. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.57	2.88E-02	150	8.55	-92
A2	8.57	2.88E-02	150	8.55	-92
FD	9.33	1.43E-04	-62	9.35	-94
L1	3.84	1.57E-03	170	3.85	87
L3	3.84	1.58E-03	168	3.85	82
L4	6.91	0.296	-107	8.48	103
NF	—	—	—	—	—
NS	5.57	3.18E-02	-147	18.4	58

Table C–912. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.09E-02	17.6	-2.39E-02	17.4
A2	-1.09E-02	17.6	-2.39E-02	17.4
FD	-2.20E-02	18.7	6.39E-03	18.5
L1	-1.66E-02	7.69	4.24E-03	7.70
L3	-2.10E-02	7.69	-4.71E-04	7.69
L4	-19.2	32.0	-2.35	29.7
NF	—	—	—	—
NS	-56.3	70.6	-27.1	32.4

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-457. Time history of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

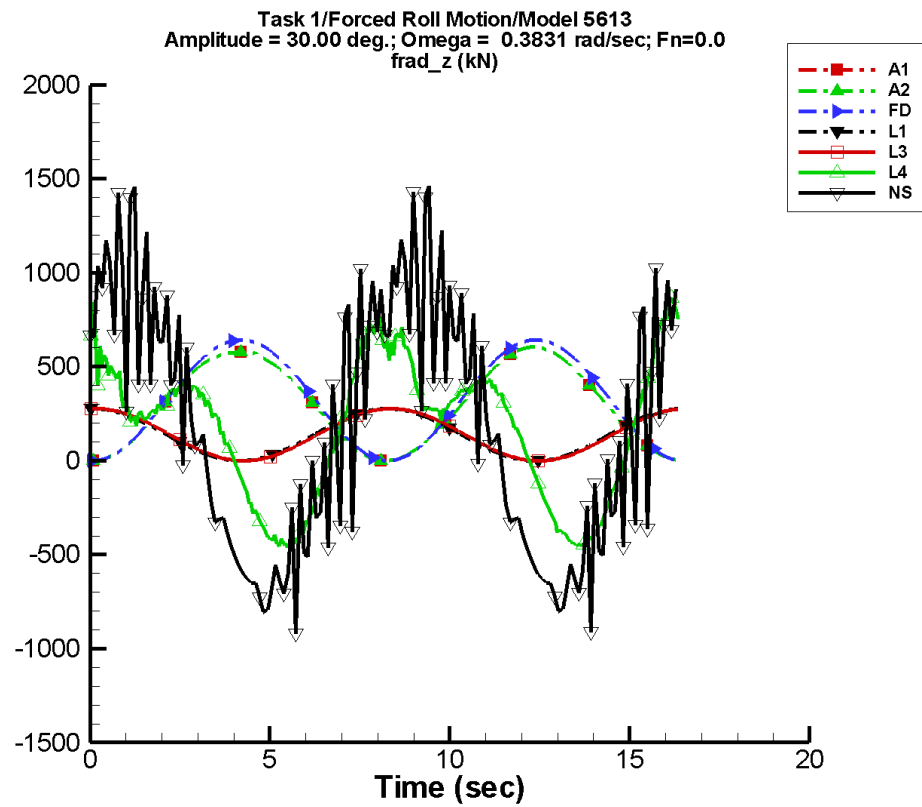
Table C–913. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	76.5	0.244	149	76.1	-92
A2	76.5	0.244	149	76.1	-92
FD	83.4	1.14E-02	-63	83.3	-94
L1	34.5	5.14E-03	173	34.7	87
L3	34.5	5.14E-03	171	34.7	82
L4	52.7	5.64	-143	89.8	77
NF	—	—	—	—	—
NS	47.8	0.342	-143	192.	55

Table C–914. Minimum and maximum of of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-0.102	157.	-0.211	155.
A2	-0.102	157.	-0.211	155.
FD	-0.198	166.	5.87E-02	165.
L1	-0.138	69.2	4.78E-02	69.3
L3	-0.182	69.2	4.66E-03	69.2
L4	-72.0	289.	-55.7	184.
NF	—	—	—	—
NS	-330.	434.	-138.	235.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-458. Time history of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

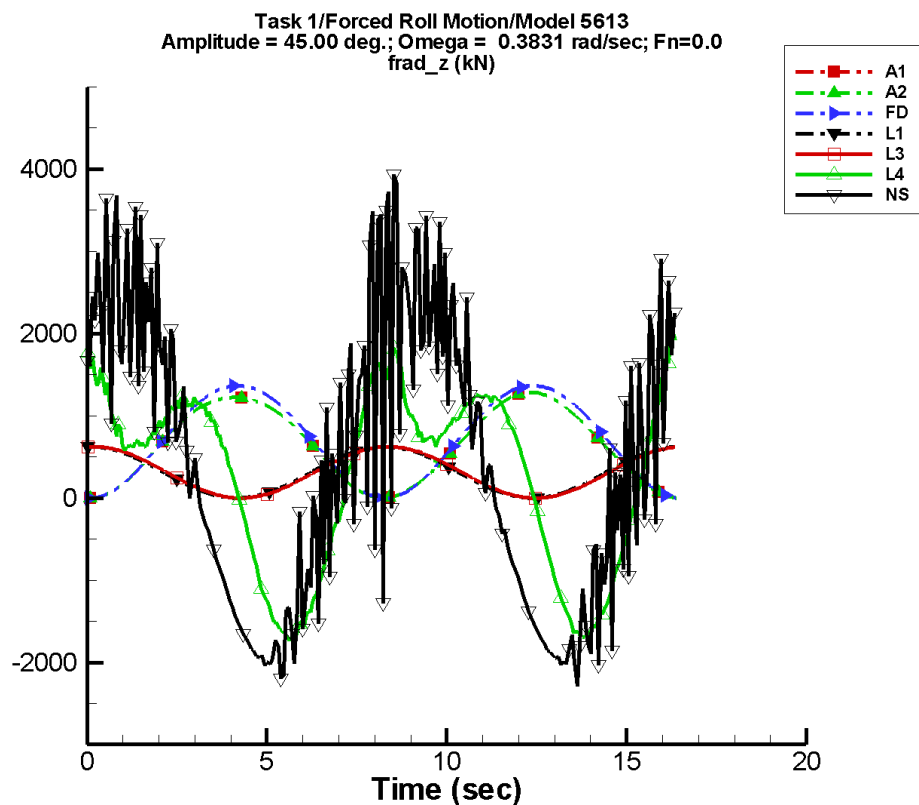
Table C–915. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	298.	0.902	146	294.	-92
A2	298.	0.902	146	294.	-92
FD	325.	0.180	-63	322.	-94
L1	138.	1.15E-02	175	139.	87
L3	138.	1.17E-02	172	139.	82
L4	163.	25.6	-136	409.	47
NF	—	—	—	—	—
NS	174.	1.37	-145	850.	55

Table C–916. Minimum and maximum of of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-0.413	605.	-0.748	600.
A2	-0.413	605.	-0.748	600.
FD	-0.791	643.	0.252	639.
L1	-0.543	277.	0.200	277.
L3	-0.718	277.	2.69E-02	277.
L4	-471.	869.	-442.	800.
NF	—	—	—	—
NS	-920.	1.47E+03	-699.	1.00E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-459. Time history of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

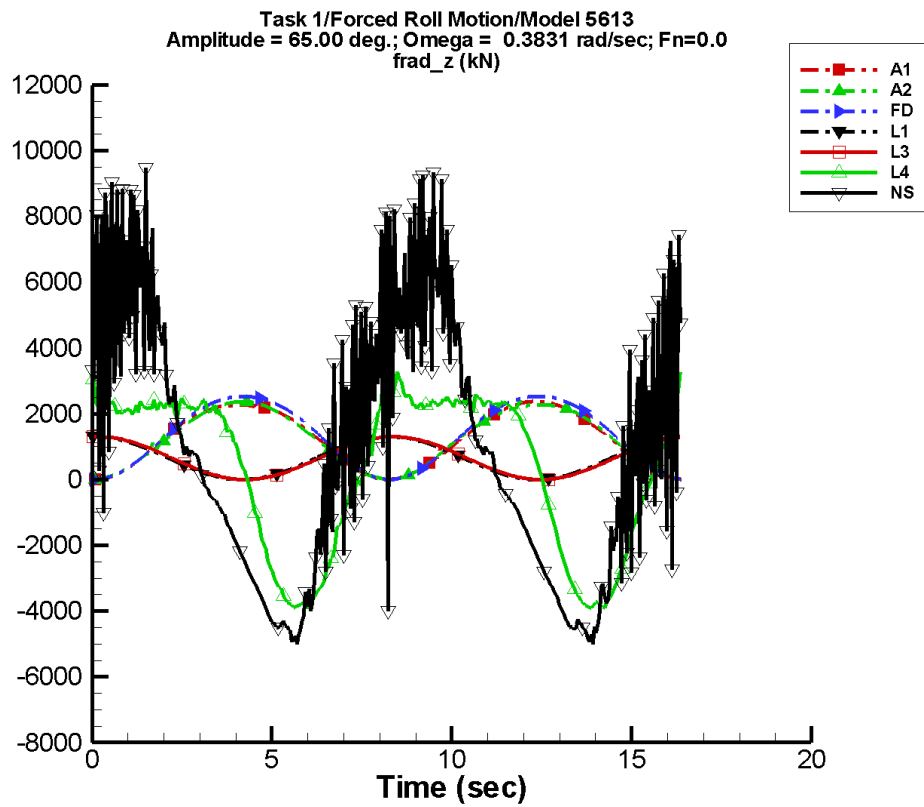
Table C–917. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	642.	1.79	140	624.	-92
A2	642.	1.79	140	624.	-92
FD	700.	0.884	-63	682.	-94
L1	311.	1.89E-02	178	312.	87
L3	311.	1.93E-02	174	312.	82
L4	268.	62.3	-155	1.23E+03	25
NF	—	—	—	—	—
NS	379.	3.90	-146	2.24E+03	52

Table C–918. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-0.932	1.28E+03	-1.32	1.27E+03
A2	-0.932	1.28E+03	-1.32	1.27E+03
FD	-1.78	1.36E+03	0.627	1.36E+03
L1	-1.21	623.	0.456	623.
L3	-1.61	623.	6.69E-02	623.
L4	-1.77E+03	2.03E+03	-1.68E+03	1.81E+03
NF	—	—	—	—
NS	-2.29E+03	3.95E+03	-1.96E+03	2.50E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-460. Time history of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

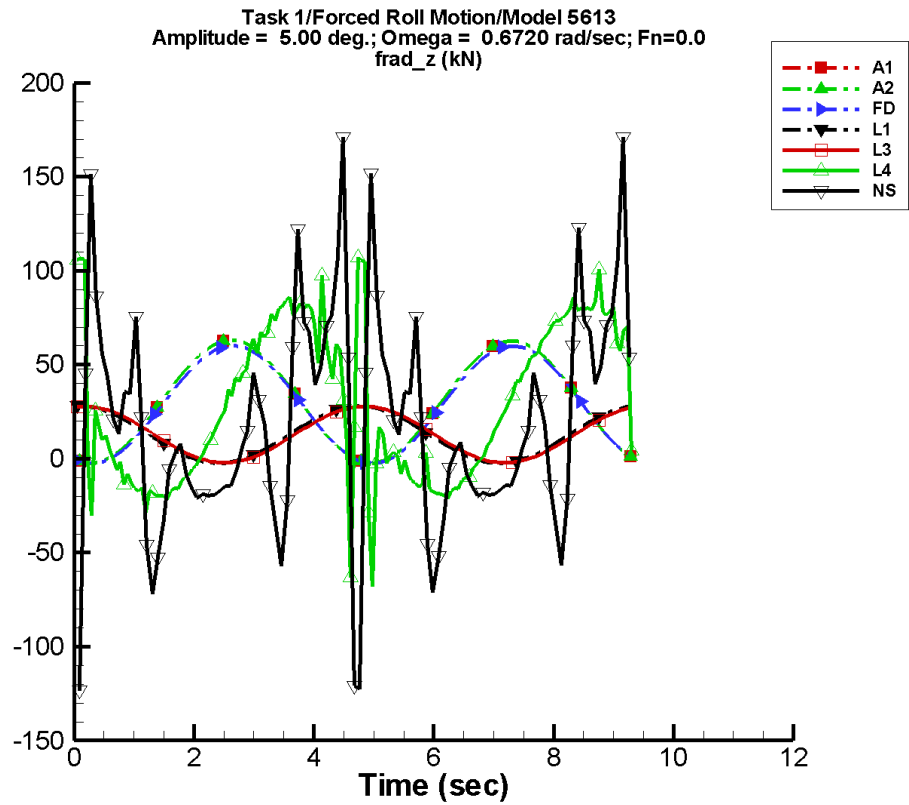
Table C–919. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.23E+03	2.99	125	1.15E+03	-91
A2	1.23E+03	0.185	94	1.15E+03	-92
FD	1.34E+03	3.64	-63	1.26E+03	-94
L1	648.	3.15E-02	179	651.	87
L3	648.	3.19E-02	175	651.	82
L4	350.	114.	-162	2.96E+03	15
NF	—	—	—	—	—
NS	809.	7.96	-140	4.99E+03	49

Table C–920. Minimum and maximum of of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.95	2.38E+03	-1.35	2.36E+03
A2	-1.49	2.39E+03	3.99	2.35E+03
FD	-3.71	2.53E+03	1.55	2.51E+03
L1	-2.53	1.30E+03	0.959	1.30E+03
L3	-3.35	1.30E+03	0.147	1.30E+03
L4	-4.01E+03	3.37E+03	-3.84E+03	2.86E+03
NF	—	—	—	—
NS	-5.01E+03	9.50E+03	-4.72E+03	6.56E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-461. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

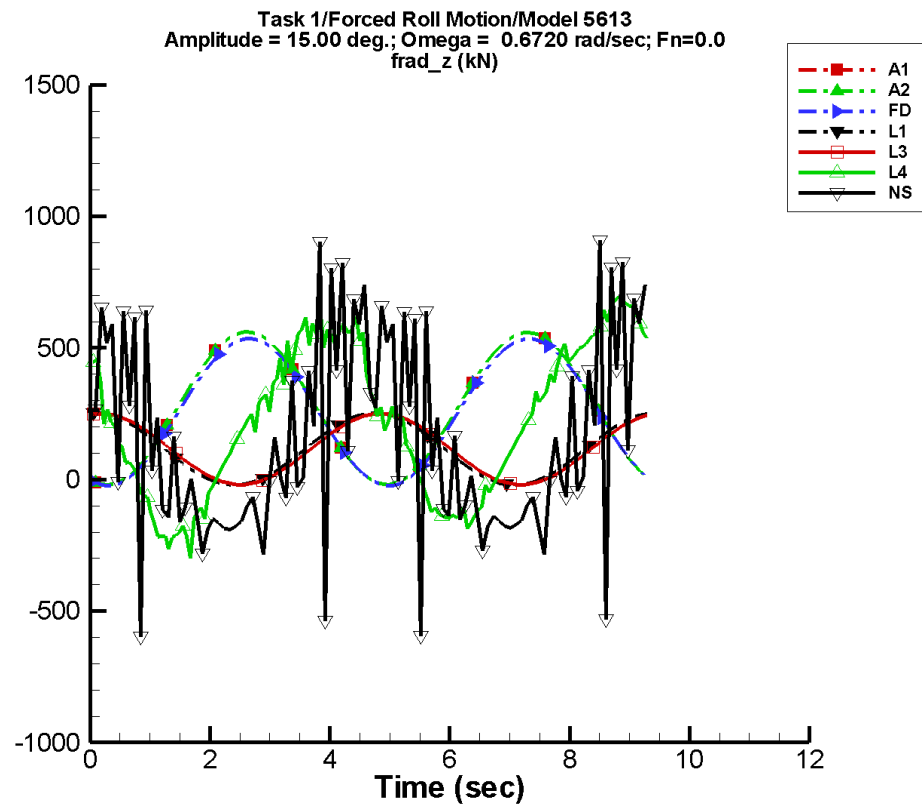
Table C–921. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	30.1	6.92E-02	-1	32.5	-112
A2	30.1	6.92E-02	-1	32.5	-112
FD	28.7	7.16E-04	-61	31.3	-114
L1	12.8	3.13E-03	105	15.2	84
L3	12.8	3.18E-03	103	15.0	76
L4	29.8	4.33	95	51.3	163
NF	—	—	—	—	—
NS	17.5	0.110	-172	38.8	111

Table C–922. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-2.35	62.9	-2.04	61.4
A2	-2.35	62.9	-2.04	61.4
FD	-2.63	60.0	-1.89	59.6
L1	-2.38	28.0	-2.14	28.0
L3	-2.22	27.8	-1.99	27.8
L4	-67.9	107.	-20.0	85.1
NF	—	—	—	—
NS	-123.	171.	-60.1	83.6

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-462. Time history of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

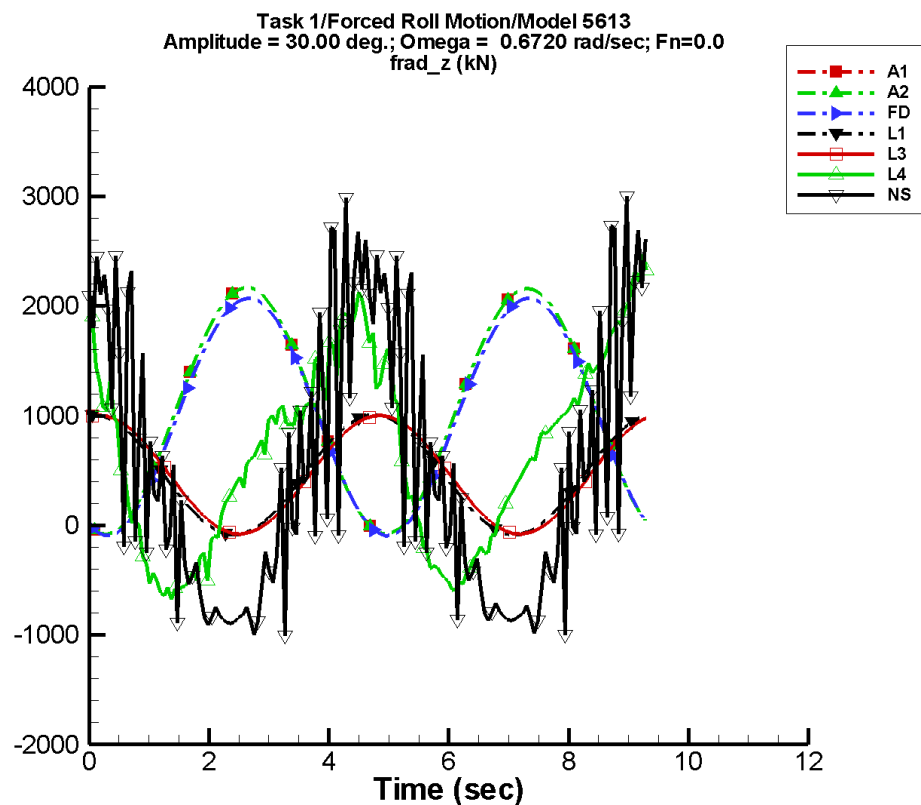
Table C-923. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	269.	0.683	-2	290.	-112
A2	269.	0.683	-2	290.	-112
FD	256.	5.90E-02	-51	279.	-114
L1	115.	1.08E-02	104	137.	84
L3	115.	1.10E-02	103	135.	76
L4	227.	20.5	164	389.	153
NF	—	—	—	—	—
NS	147.	1.51	-179	359.	100

Table C-924. Minimum and maximum of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-21.2	560.	-18.4	547.
A2	-21.2	560.	-18.4	547.
FD	-23.7	535.	-16.9	531.
L1	-21.4	252.	-19.3	252.
L3	-19.9	250.	-17.9	250.
L4	-298.	695.	-222.	666.
NF	—	—	—	—
NS	-596.	911.	-176.	664.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-463. Time history of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

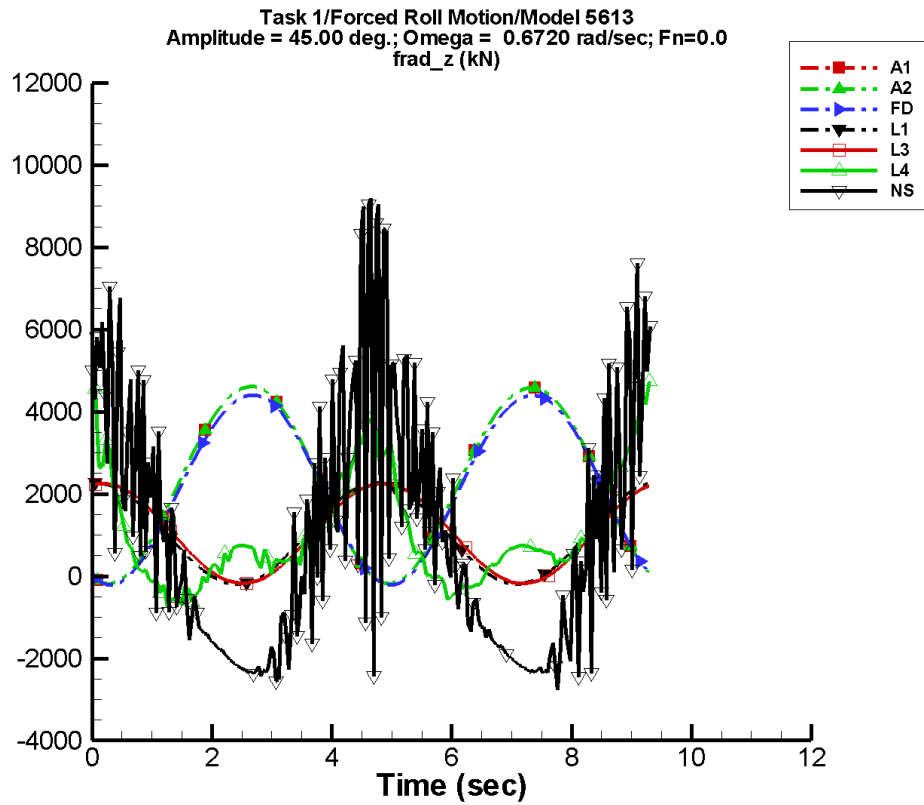
Table C–925. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.05E+03	3.38	-4	1.12E+03	-112
A2	1.05E+03	3.38	-4	1.12E+03	-112
FD	999.	0.933	-50	1.08E+03	-114
L1	461.	2.62E-02	107	547.	84
L3	461.	2.77E-02	104	541.	76
L4	680.	41.6	174	1.14E+03	141
NF	—	—	—	—	—
NS	506.	6.38	-176	1.50E+03	92

Table C–926. Minimum and maximum of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-84.5	2.17E+03	-72.9	2.12E+03
A2	-84.5	2.17E+03	-72.9	2.12E+03
FD	-94.6	2.07E+03	-67.3	2.05E+03
L1	-85.7	1.01E+03	-77.1	1.01E+03
L3	-79.7	1.00E+03	-71.6	1.00E+03
L4	-713.	2.47E+03	-591.	2.19E+03
NF	—	—	—	—
NS	-1.01E+03	3.03E+03	-864.	2.46E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-464. Time history of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

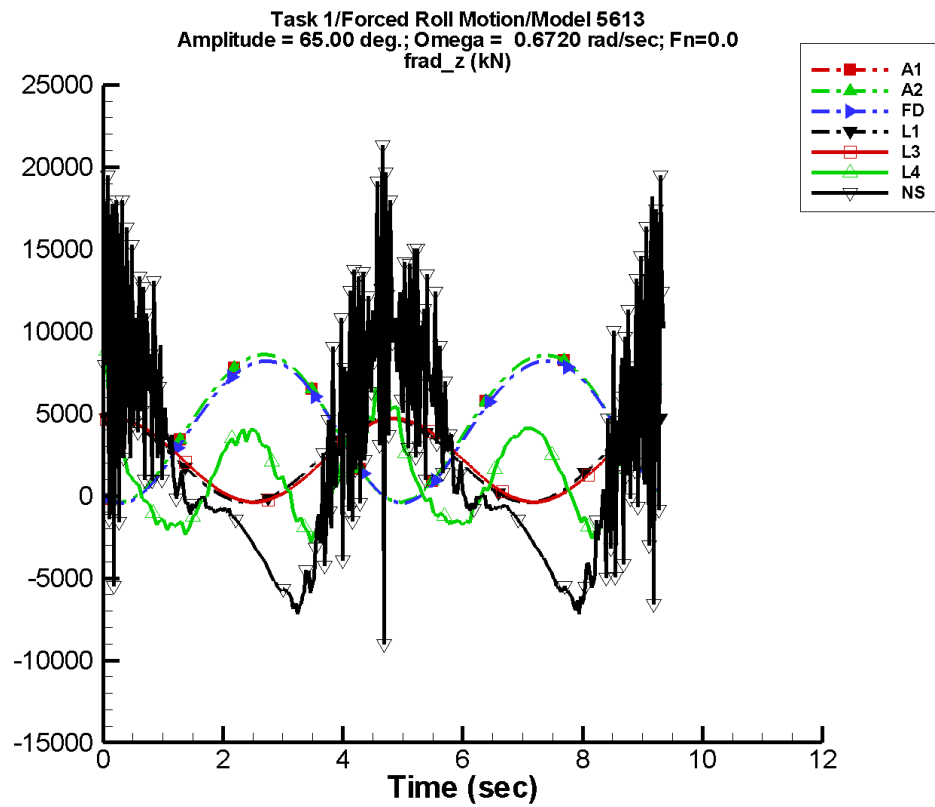
Table C-927. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.26E+03	9.89	-6	2.39E+03	-113
A2	2.26E+03	9.89	-6	2.39E+03	-113
FD	2.15E+03	4.61	-50	2.31E+03	-115
L1	1.04E+03	4.63E-02	108	1.23E+03	84
L3	1.04E+03	4.94E-02	107	1.22E+03	76
L4	1.06E+03	110.	153	1.45E+03	119
NF	—	—	—	—	—
NS	961.	16.1	-168	3.57E+03	80

Table C-928. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-190.	4.61E+03	-162.	4.51E+03
A2	-190.	4.61E+03	-162.	4.51E+03
FD	-212.	4.40E+03	-150.	4.36E+03
L1	-193.	2.27E+03	-173.	2.27E+03
L3	-179.	2.25E+03	-161.	2.25E+03
L4	-769.	4.75E+03	-516.	3.96E+03
NF	—	—	—	—
NS	-2.77E+03	9.24E+03	-2.31E+03	5.75E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-465. Time history of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

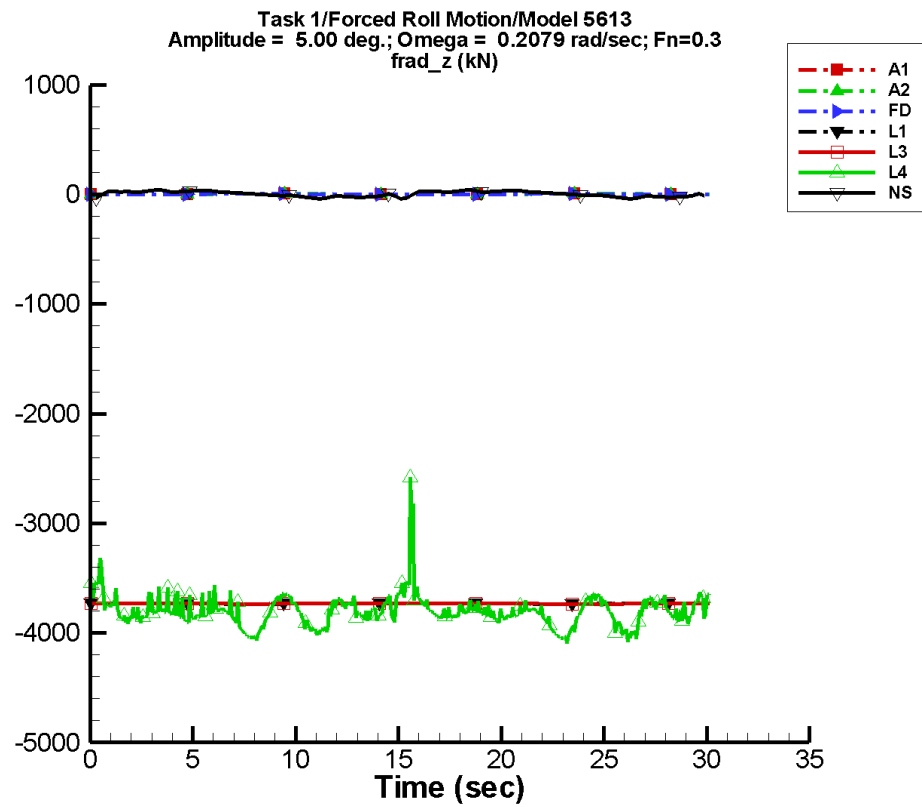
Table C–929. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	4.32E+03	29.2	-9	4.48E+03	-114
A2	4.32E+03	29.2	-9	4.48E+03	-114
FD	4.11E+03	19.1	-50	4.31E+03	-116
L1	2.16E+03	8.48E-02	110	2.57E+03	84
L3	2.16E+03	8.43E-02	109	2.54E+03	76
L4	1.63E+03	114.	175	1.13E+03	146
NF	—	—	—	—	—
NS	1.76E+03	35.1	-172	7.10E+03	65

Table C–930. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-394.	8.59E+03	-331.	8.43E+03
A2	-394.	8.59E+03	-331.	8.43E+03
FD	-441.	8.21E+03	-305.	8.10E+03
L1	-402.	4.73E+03	-362.	4.73E+03
L3	-374.	4.70E+03	-336.	4.70E+03
L4	-2.82E+03	9.41E+03	-2.01E+03	6.79E+03
NF	—	—	—	—
NS	-8.99E+03	2.15E+04	-6.50E+03	1.19E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-466. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

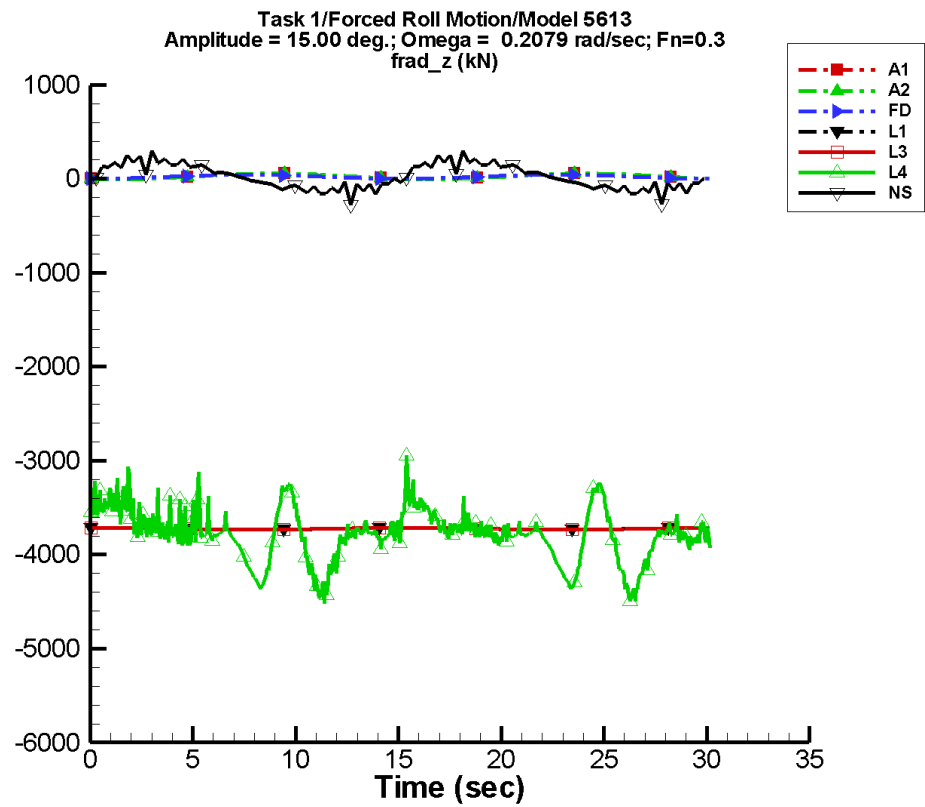
Table C–931. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.88	1.52E-02	111	3.44	-123
A2	2.88	1.52E-02	111	3.44	-123
FD	2.49	1.84E-05	3	2.49	-91
L1	-3.73E+03	1.98E-02	-110	1.08	84
L3	-3.73E+03	0.294	-97	1.13	75
L4	-3.80E+03	5.11	-55	70.2	80
NF	—	—	—	—	—
NS	3.81	0.202	-123	31.6	-13

Table C–932. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-0.776	6.47	-0.600	6.44
A2	-0.776	6.47	-0.600	6.44
FD	-3.42E-04	4.97	-8.38E-03	4.96
L1	-3.73E+03	-3.73E+03	-3.73E+03	-3.73E+03
L3	-3.73E+03	-3.73E+03	-3.73E+03	-3.73E+03
L4	-4.10E+03	-2.58E+03	-4.04E+03	-3.28E+03
NF	—	—	—	—
NS	-38.7	47.0	-27.1	33.2

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-467. Time history of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

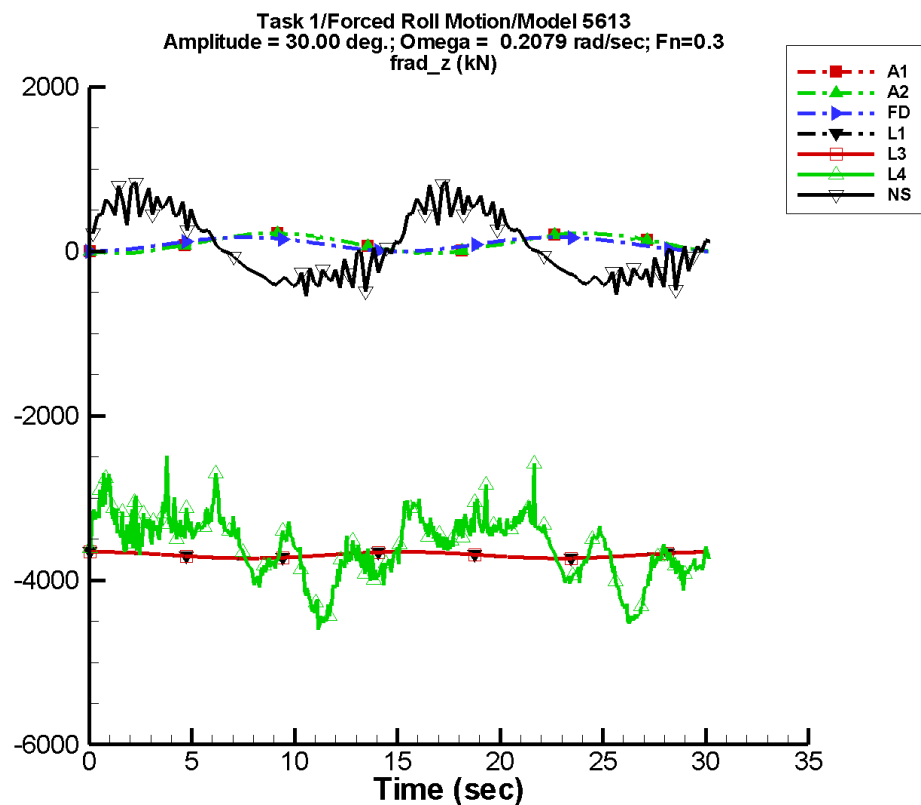
Table C–933. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	25.7	5.89E-02	130	30.7	-124
A2	25.7	5.89E-02	130	30.7	-124
FD	22.2	1.54E-03	4	22.1	-91
L1	-3.72E+03	1.84E-02	-104	9.72	85
L3	-3.72E+03	0.294	-98	9.76	84
L4	-3.79E+03	25.5	57	183.	44
NF	—	—	—	—	—
NS	23.6	0.937	-112	167.	4

Table C–934. Minimum and maximum of of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-7.05	57.6	-5.45	57.3
A2	-7.05	57.6	-5.45	57.3
FD	-3.08E-03	44.3	-7.42E-02	44.2
L1	-3.73E+03	-3.71E+03	-3.73E+03	-3.71E+03
L3	-3.73E+03	-3.71E+03	-3.73E+03	-3.71E+03
L4	-4.53E+03	-2.94E+03	-4.42E+03	-3.29E+03
NF	—	—	—	—
NS	-276.	310.	-127.	200.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-468. Time history of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

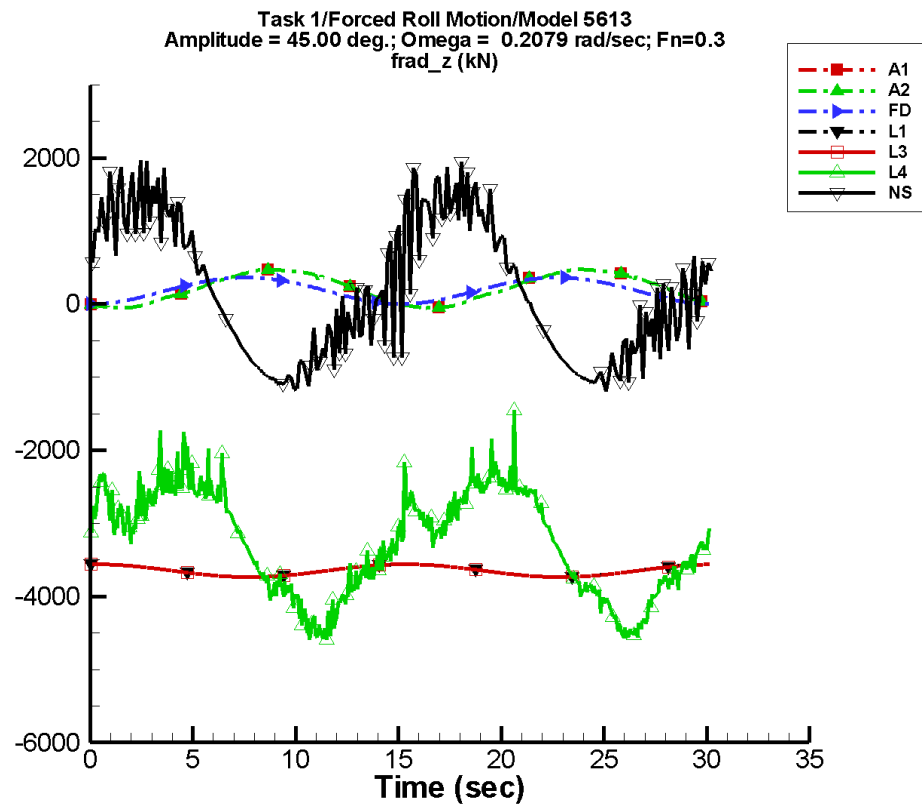
Table C–935. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	100.	0.112	144	119.	-124
A2	100.	0.112	144	119.	-124
FD	86.6	2.42E-02	4	85.6	-91
L1	-3.70E+03	1.65E-02	-108	38.9	85
L3	-3.70E+03	0.291	-98	38.9	84
L4	-3.59E+03	28.9	70	380.	3
NF	—	—	—	—	—
NS	75.7	2.24	-96	521.	22

Table C–936. Minimum and maximum of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-28.2	223.	-21.8	222.
A2	-28.2	223.	-21.8	222.
FD	-1.23E-02	171.	-0.281	171.
L1	-3.73E+03	-3.66E+03	-3.73E+03	-3.66E+03
L3	-3.73E+03	-3.66E+03	-3.73E+03	-3.66E+03
L4	-4.62E+03	-2.47E+03	-4.47E+03	-2.90E+03
NF	—	—	—	—
NS	-541.	860.	-375.	645.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-469. Time history of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

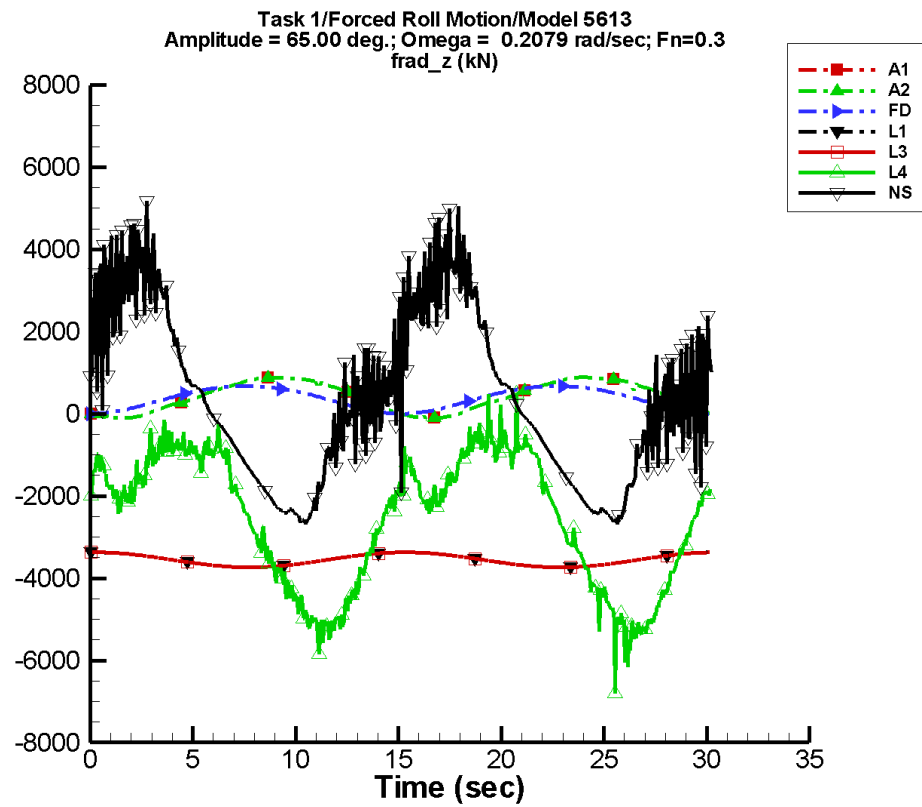
Table C–937. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	216.	3.84E-02	-102	256.	-125
A2	216.	3.84E-02	-102	256.	-125
FD	186.	0.119	3	182.	-91
L1	-3.65E+03	1.37E-02	-110	87.5	85
L3	-3.65E+03	0.288	-99	87.6	85
L4	-3.28E+03	14.6	78	918.	1
NF	—	—	—	—	—
NS	170.	4.36	-82	1.23E+03	33

Table C–938. Minimum and maximum of of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-63.2	475.	-48.8	473.
A2	-63.2	475.	-48.8	473.
FD	-2.77E-02	363.	-0.574	362.
L1	-3.74E+03	-3.56E+03	-3.73E+03	-3.56E+03
L3	-3.74E+03	-3.56E+03	-3.74E+03	-3.56E+03
L4	-4.62E+03	-1.46E+03	-4.52E+03	-2.21E+03
NF	—	—	—	—
NS	-1.20E+03	2.01E+03	-1.06E+03	1.52E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-470. Time history of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

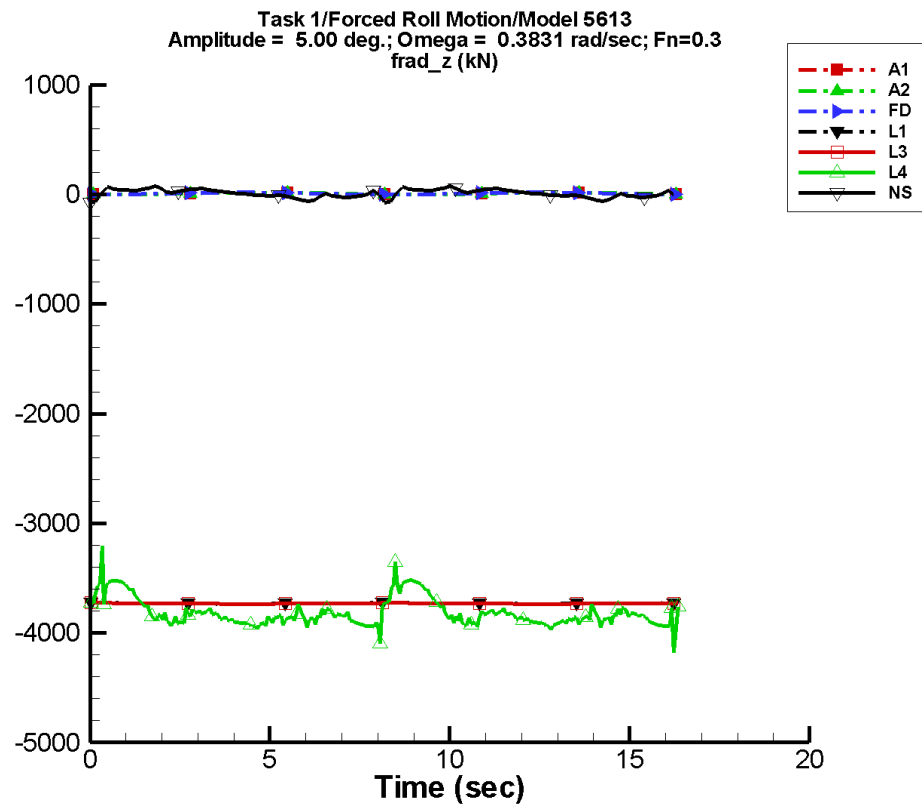
Table C–939. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	412.	0.970	-42	484.	-126
A2	412.	0.970	-42	484.	-126
FD	356.	0.493	3	336.	-91
L1	-3.55E+03	1.08E-02	-114	183.	85
L3	-3.55E+03	0.287	-99	183.	85
L4	-2.61E+03	22.1	-165	2.11E+03	-2
NF	—	—	—	—	—
NS	347.	16.5	-32	2.69E+03	40

Table C–940. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-131.	886.	-101.	883.
A2	-131.	886.	-101.	883.
FD	-5.78E-02	672.	-0.973	671.
L1	-3.74E+03	-3.37E+03	-3.74E+03	-3.37E+03
L3	-3.74E+03	-3.37E+03	-3.74E+03	-3.37E+03
L4	-6.81E+03	491.	-5.50E+03	-513.
NF	—	—	—	—
NS	-2.76E+03	5.19E+03	-2.63E+03	3.78E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-471. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

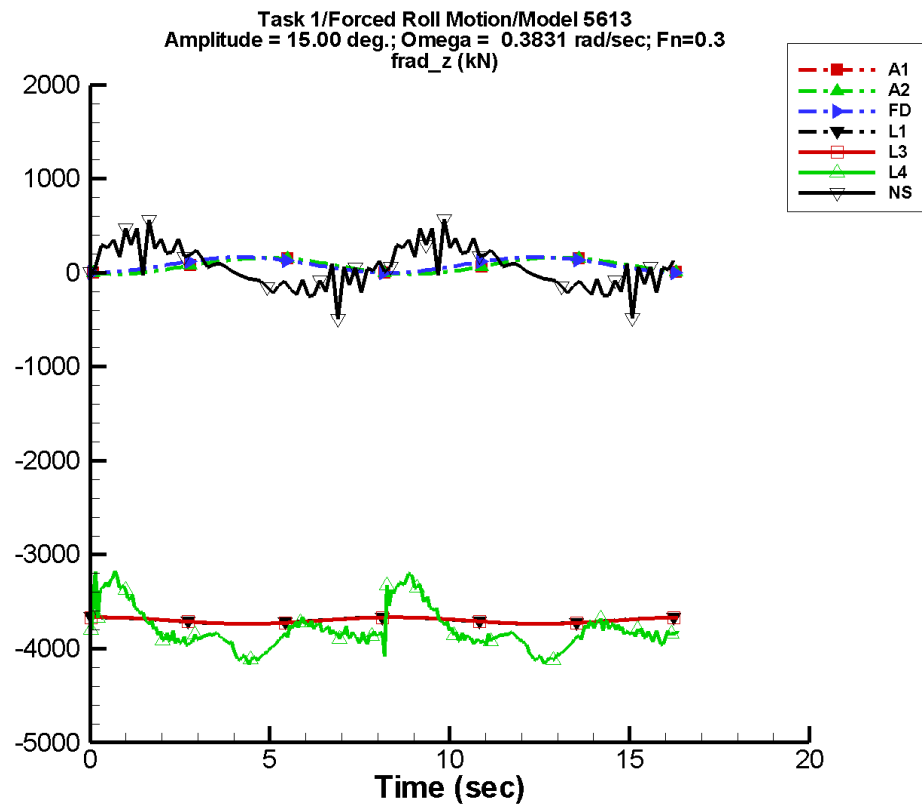
Table C-941. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	8.23	5.11E-02	123	9.68	-122
A2	8.23	5.11E-02	123	9.68	-122
FD	9.33	1.43E-04	-62	9.35	-94
L1	-3.73E+03	3.42E-03	152	3.83	83
L3	-3.73E+03	0.100	-141	3.83	78
L4	-3.81E+03	10.5	93	107.	60
NF	—	—	—	—	—
NS	9.20	0.626	174	40.1	-5

Table C-942. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.59	18.1	-1.41	18.0
A2	-1.59	18.1	-1.41	18.0
FD	-2.20E-02	18.7	6.39E-03	18.5
L1	-3.73E+03	-3.73E+03	-3.73E+03	-3.73E+03
L3	-3.73E+03	-3.73E+03	-3.73E+03	-3.73E+03
L4	-4.19E+03	-3.21E+03	-3.94E+03	-3.53E+03
NF	—	—	—	—
NS	-74.3	80.0	-38.1	50.3

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-472. Time history of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

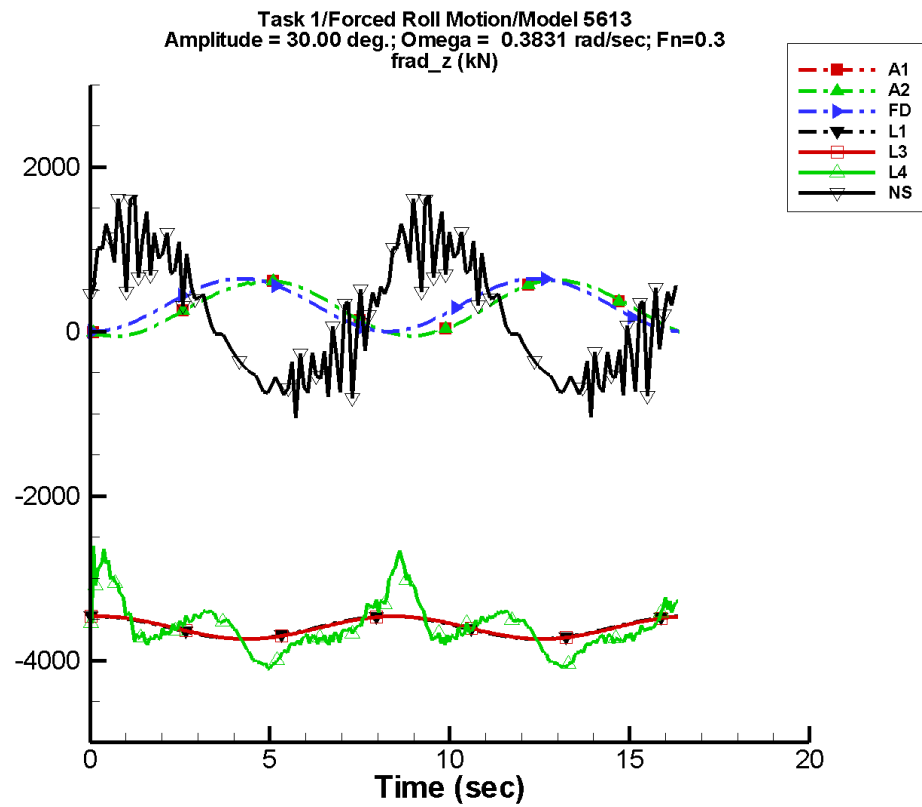
Table C-943. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	73.5	0.336	138	86.3	-122
A2	73.5	0.336	138	86.3	-122
FD	83.4	1.14E-02	-63	83.3	-94
L1	-3.70E+03	7.54E-03	135	34.5	83
L3	-3.70E+03	0.101	-144	34.5	78
L4	-3.79E+03	13.5	77	232.	72
NF	—	—	—	—	—
NS	64.5	3.39	177	254.	16

Table C-944. Minimum and maximum of of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-14.4	162.	-12.8	160.
A2	-14.4	162.	-12.8	160.
FD	-0.198	166.	5.87E-02	165.
L1	-3.74E+03	-3.67E+03	-3.74E+03	-3.67E+03
L3	-3.74E+03	-3.67E+03	-3.74E+03	-3.67E+03
L4	-4.18E+03	-3.17E+03	-4.12E+03	-3.27E+03
NF	—	—	—	—
NS	-491.	581.	-170.	339.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-473. Time history of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

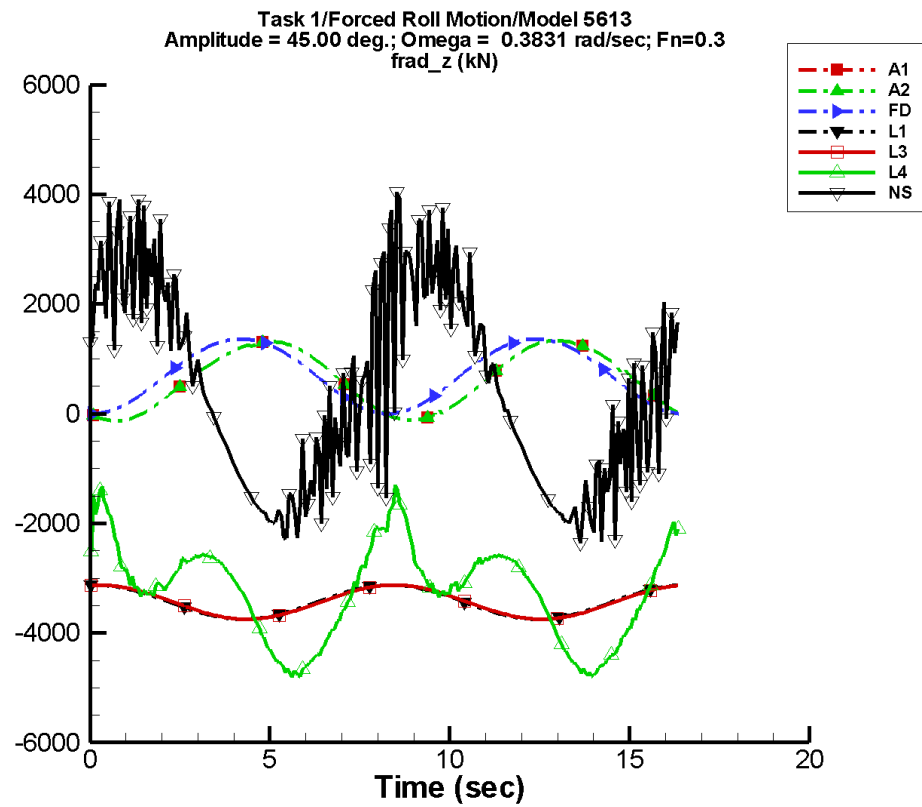
Table C-945. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	286.	1.06	141	335.	-123
A2	286.	1.06	141	335.	-123
FD	325.	0.180	-63	322.	-94
L1	-3.60E+03	1.64E-02	133	138.	83
L3	-3.60E+03	0.100	-150	138.	78
L4	-3.58E+03	7.47	132	279.	57
NF	—	—	—	—	—
NS	206.	8.09	178	933.	32

Table C-946. Minimum and maximum of of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-57.7	625.	-51.2	620.
A2	-57.7	625.	-51.2	620.
FD	-0.791	643.	0.252	639.
L1	-3.74E+03	-3.46E+03	-3.74E+03	-3.46E+03
L3	-3.74E+03	-3.46E+03	-3.74E+03	-3.46E+03
L4	-4.11E+03	-2.59E+03	-4.06E+03	-2.84E+03
NF	—	—	—	—
NS	-1.05E+03	1.70E+03	-669.	1.22E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-474. Time history of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

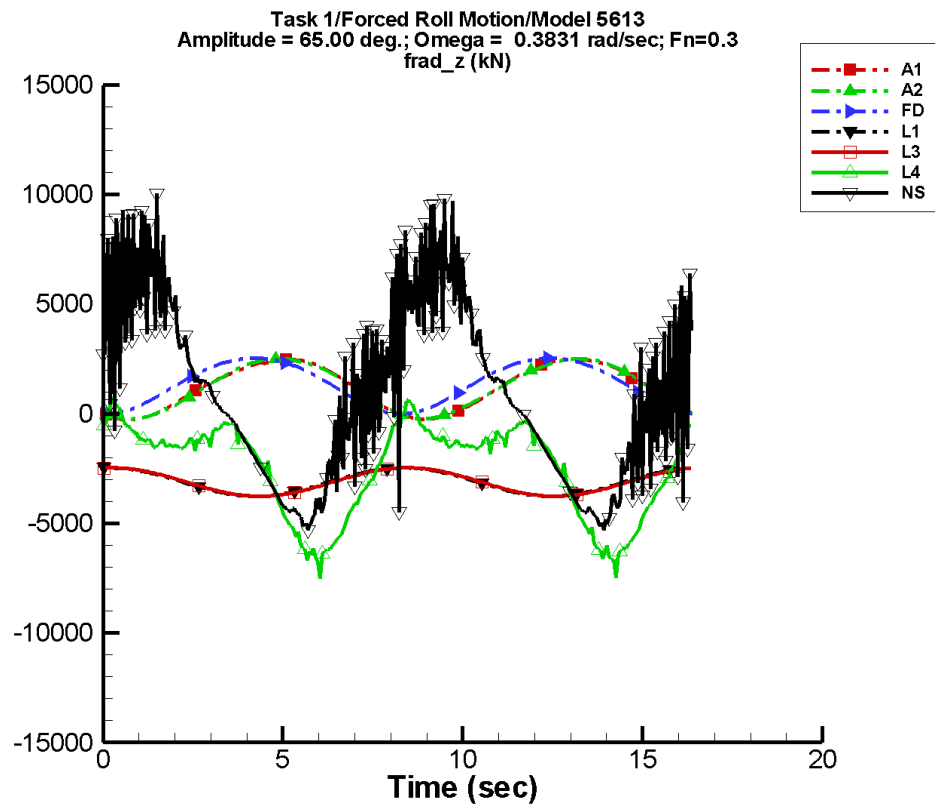
Table C-947. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	617.	1.60	140	718.	-123
A2	617.	1.60	140	718.	-123
FD	700.	0.884	-63	682.	-94
L1	-3.44E+03	2.54E-02	130	310.	83
L3	-3.44E+03	0.102	-156	311.	78
L4	-3.22E+03	38.1	169	860.	30
NF	—	—	—	—	—
NS	412.	13.4	-179	2.33E+03	37

Table C-948. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-129.	1.33E+03	-115.	1.32E+03
A2	-129.	1.33E+03	-115.	1.32E+03
FD	-1.78	1.36E+03	0.627	1.36E+03
L1	-3.75E+03	-3.13E+03	-3.75E+03	-3.13E+03
L3	-3.75E+03	-3.13E+03	-3.75E+03	-3.13E+03
L4	-4.82E+03	-1.30E+03	-4.73E+03	-1.63E+03
NF	—	—	—	—
NS	-2.36E+03	4.12E+03	-1.94E+03	2.80E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-475. Time history of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

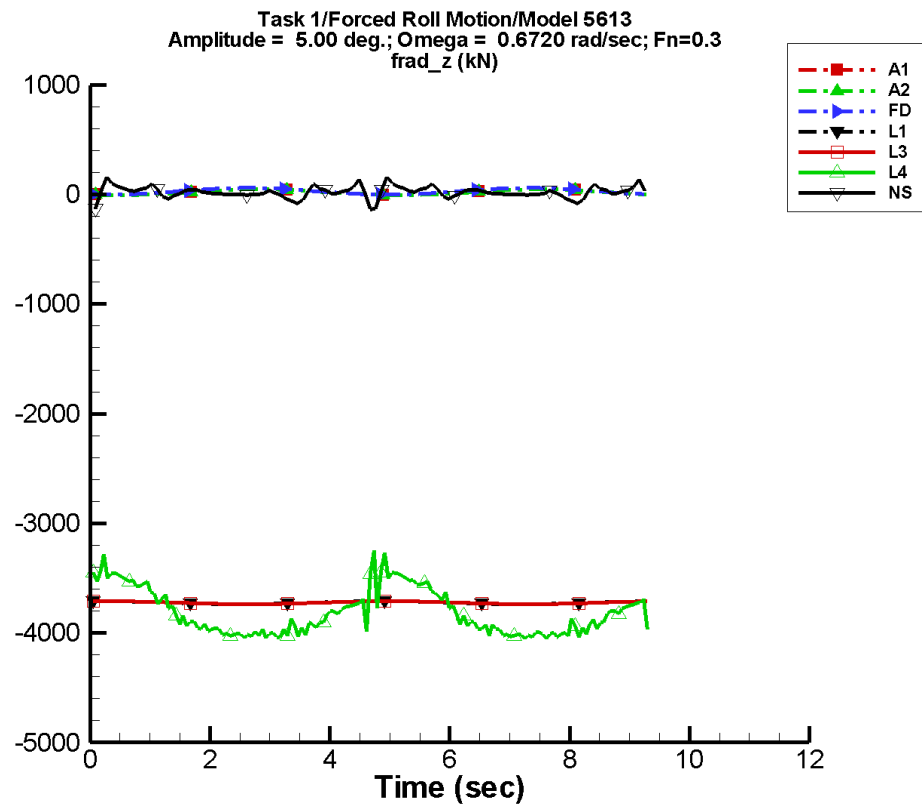
Table C–949. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.18E+03	0.699	94	1.36E+03	-125
A2	1.18E+03	5.20	-49	1.36E+03	-125
FD	1.34E+03	3.64	-63	1.26E+03	-94
L1	-3.11E+03	3.65E-02	133	647.	83
L3	-3.12E+03	0.108	-162	649.	78
L4	-2.46E+03	106.	157	2.36E+03	9
NF	—	—	—	—	—
NS	820.	15.6	-170	5.10E+03	39

Table C–950. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-268.	2.49E+03	-237.	2.47E+03
A2	-298.	2.53E+03	-225.	2.51E+03
FD	-3.71	2.53E+03	1.55	2.51E+03
L1	-3.76E+03	-2.47E+03	-3.76E+03	-2.47E+03
L3	-3.76E+03	-2.47E+03	-3.76E+03	-2.47E+03
L4	-7.50E+03	791.	-6.59E+03	237.
NF	—	—	—	—
NS	-5.30E+03	1.01E+04	-4.95E+03	7.01E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-476. Time history of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, $F_n = 0.3$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

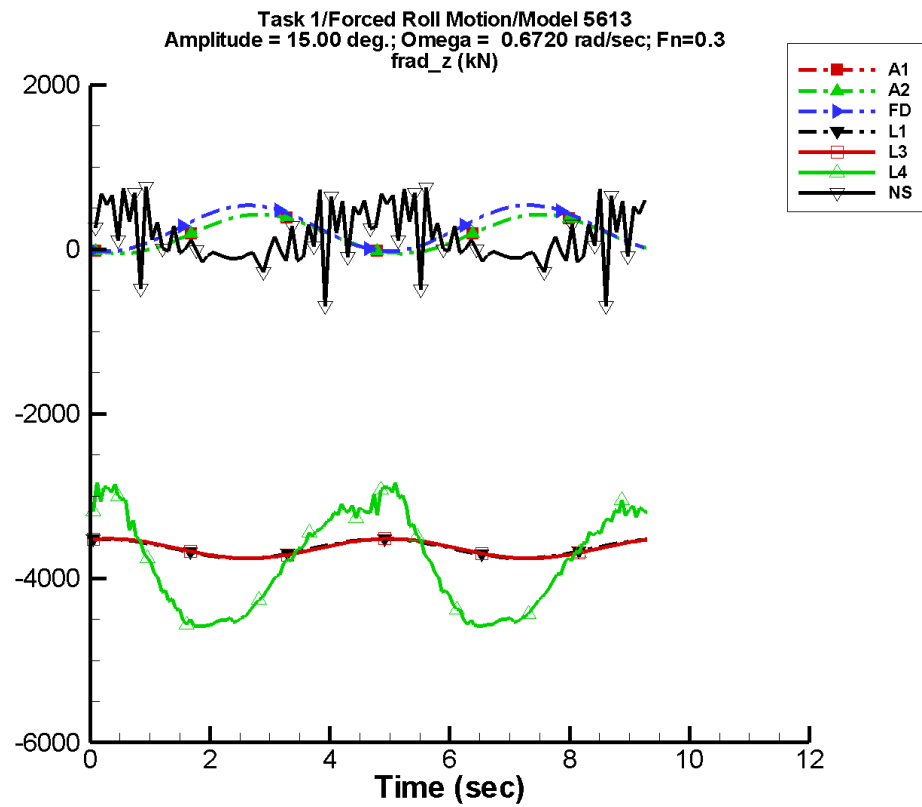
Table C–951. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	20.6	0.135	51	26.5	-129
A2	20.6	0.135	51	26.5	-129
FD	28.7	7.16E-04	-61	31.3	-114
L1	-3.72E+03	6.31E-03	90	13.1	74
L3	-3.72E+03	0.121	123	13.2	67
L4	-3.81E+03	5.26	73	270.	58
NF	—	—	—	—	—
NS	19.5	0.581	162	23.9	50

Table C–952. Minimum and maximum of F_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-6.12	47.6	-4.48	46.3
A2	-6.12	47.6	-4.48	46.3
FD	-2.63	60.0	-1.89	59.6
L1	-3.74E+03	-3.71E+03	-3.74E+03	-3.71E+03
L3	-3.74E+03	-3.71E+03	-3.74E+03	-3.71E+03
L4	-4.05E+03	-3.25E+03	-4.03E+03	-3.44E+03
NF	—	—	—	—
NS	-138.	159.	-68.2	63.6

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-477. Time history of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

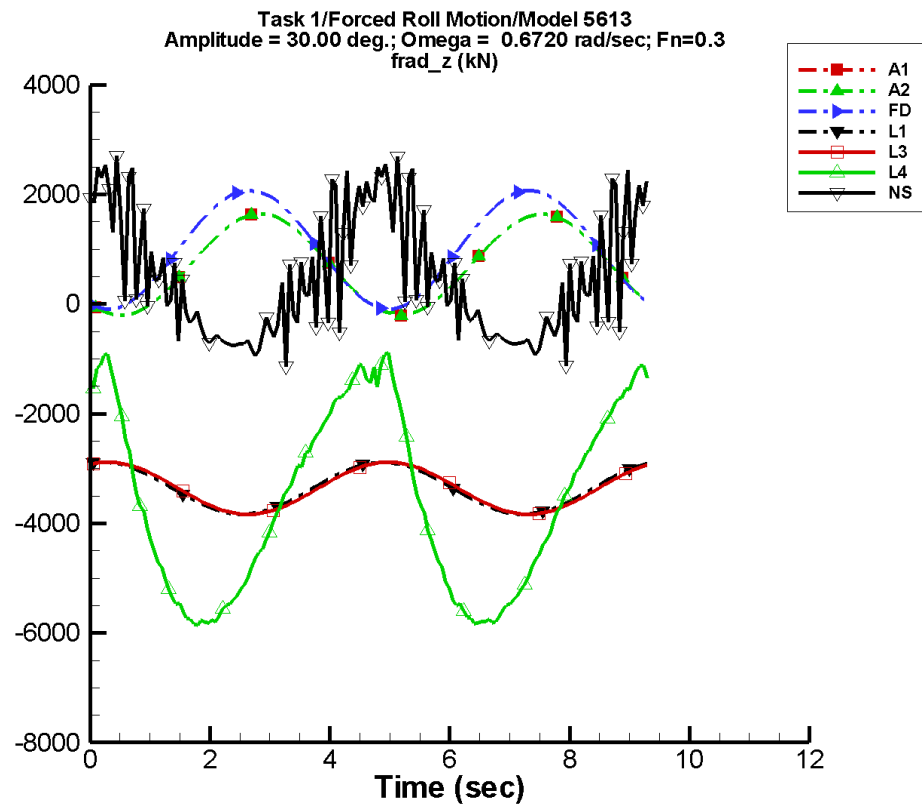
Table C–953. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	184.	0.995	43	236.	-129
A2	184.	0.995	43	236.	-129
FD	256.	5.90E-02	-51	279.	-114
L1	-3.64E+03	1.81E-02	108	118.	74
L3	-3.64E+03	0.135	122	119.	67
L4	-3.79E+03	9.69	79	811.	102
NF	—	—	—	—	—
NS	152.	4.16	165	283.	77

Table C–954. Minimum and maximum of of F_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-54.7	424.	-40.4	413.
A2	-54.7	424.	-40.4	413.
FD	-23.7	535.	-16.9	531.
L1	-3.76E+03	-3.52E+03	-3.76E+03	-3.52E+03
L3	-3.76E+03	-3.52E+03	-3.76E+03	-3.52E+03
L4	-4.59E+03	-2.84E+03	-4.56E+03	-2.96E+03
NF	—	—	—	—
NS	-695.	763.	-100.	524.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-478. Time history of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

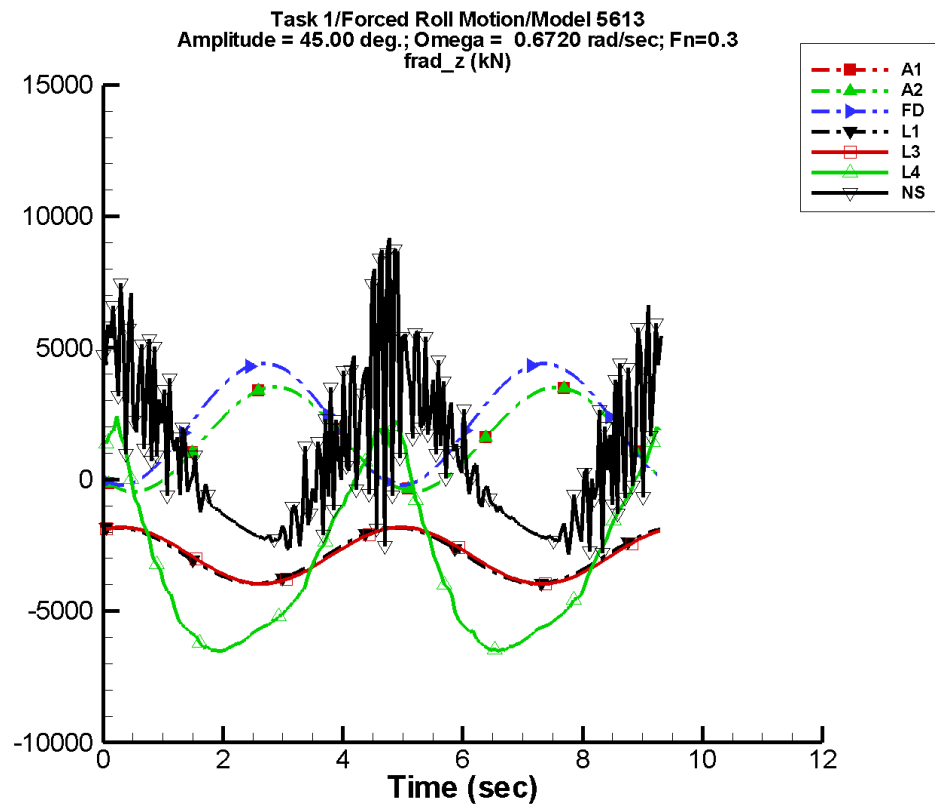
Table C–955. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	717.	3.96	33	920.	-129
A2	717.	3.96	33	920.	-129
FD	999.	0.933	-50	1.08E+03	-114
L1	-3.36E+03	3.57E-02	114	473.	74
L3	-3.36E+03	0.155	121	477.	67
L4	-3.55E+03	17.2	51	2.33E+03	112
NF	—	—	—	—	—
NS	499.	12.1	168	1.36E+03	81

Table C–956. Minimum and maximum of F_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-218.	1.64E+03	-161.	1.60E+03
A2	-218.	1.64E+03	-161.	1.60E+03
FD	-94.6	2.07E+03	-67.3	2.05E+03
L1	-3.83E+03	-2.89E+03	-3.83E+03	-2.89E+03
L3	-3.84E+03	-2.88E+03	-3.83E+03	-2.89E+03
L4	-5.86E+03	-894.	-5.79E+03	-1.18E+03
NF	—	—	—	—
NS	-1.13E+03	2.75E+03	-746.	2.21E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-479. Time history of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

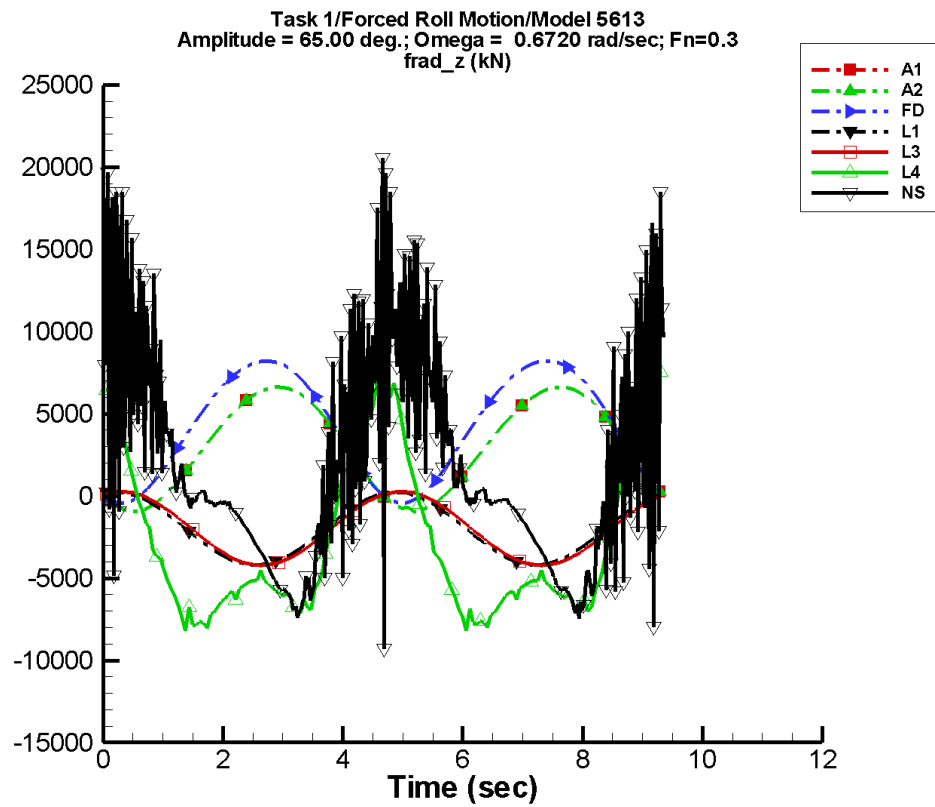
Table C–957. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	1.54E+03	9.80	21	1.98E+03	-130
A2	1.54E+03	9.80	21	1.98E+03	-130
FD	2.15E+03	4.61	-50	2.31E+03	-115
L1	-2.89E+03	5.25E-02	117	1.06E+03	74
L3	-2.89E+03	0.177	120	1.07E+03	67
L4	-3.11E+03	26.4	21	3.90E+03	101
NF	—	—	—	—	—
NS	928.	22.2	177	3.42E+03	72

Table C–958. Minimum and maximum of F_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-487.	3.52E+03	-360.	3.43E+03
A2	-487.	3.52E+03	-360.	3.43E+03
FD	-212.	4.40E+03	-150.	4.36E+03
L1	-3.96E+03	-1.83E+03	-3.94E+03	-1.84E+03
L3	-3.97E+03	-1.82E+03	-3.95E+03	-1.84E+03
L4	-6.53E+03	2.41E+03	-6.45E+03	1.79E+03
NF	—	—	—	—
NS	-2.85E+03	9.29E+03	-2.24E+03	5.50E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-480. Time history of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

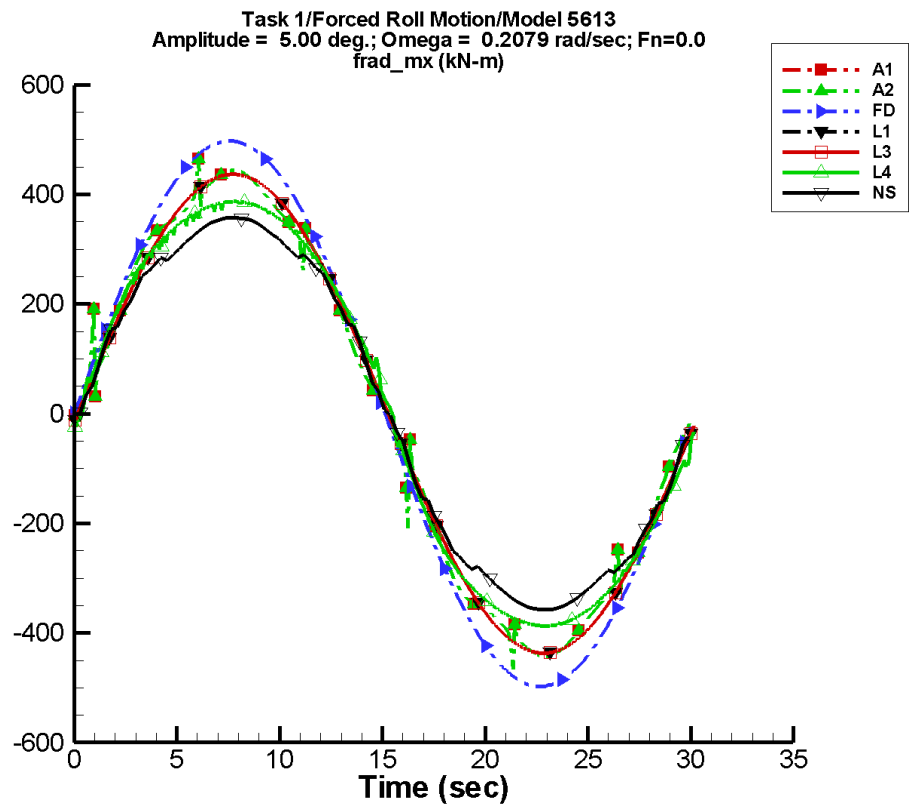
Table C–959. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN)	a_1 (kN)	Φ_1 (deg)	a_2 (kN)	Φ_2 (deg)
A1	2.95E+03	25.6	6	3.76E+03	-132
A2	2.95E+03	25.6	6	3.76E+03	-132
FD	4.11E+03	19.1	-50	4.31E+03	-116
L1	-1.98E+03	7.83E-02	121	2.22E+03	74
L3	-1.98E+03	0.212	119	2.24E+03	67
L4	-2.65E+03	119.	-27	5.66E+03	99
NF	—	—	—	—	—
NS	1.68E+03	38.7	178	6.99E+03	59

Table C–960. Minimum and maximum of F_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN)	Maximum (kN)	Minimum (kN)	Maximum (kN)
A1	-1.00E+03	6.62E+03	-741.	6.47E+03
A2	-1.00E+03	6.62E+03	-741.	6.47E+03
FD	-441.	8.21E+03	-305.	8.10E+03
L1	-4.20E+03	236.	-4.17E+03	228.
L3	-4.22E+03	256.	-4.18E+03	219.
L4	-8.19E+03	7.57E+03	-7.65E+03	6.50E+03
NF	—	—	—	—
NS	-9.28E+03	2.07E+04	-6.70E+03	1.09E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-481. Time history of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

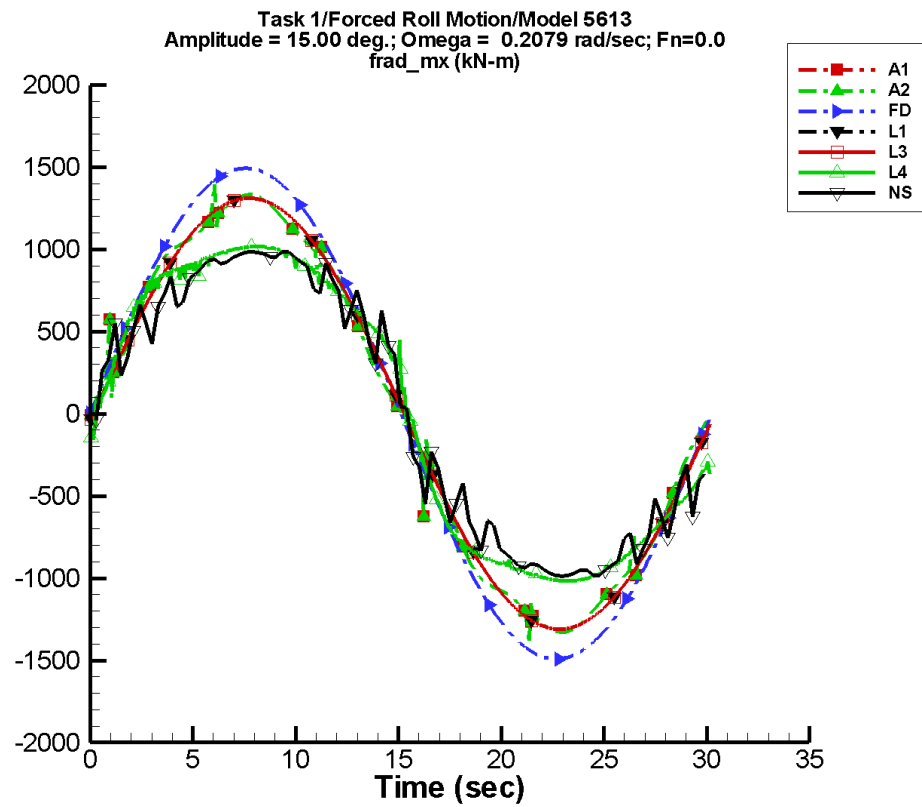
Table C-961. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-0.348	433.	0	0.197	5
A2	-0.348	433.	0	0.197	5
FD	2.35E-05	497.	0	1.04E-04	84
L1	-1.88E-05	437.	-2	3.05E-04	-55
L3	-2.34E-05	437.	-2	3.14E-04	-55
L4	0.901	406.	-2	5.79	77
NF	—	—	—	—	—
NS	-1.32E-02	368.	-2	1.13E-02	-4

Table C-962. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-466.	467.	-442.	443.
A2	-466.	467.	-442.	443.
FD	-497.	497.	-497.	497.
L1	-437.	437.	-437.	437.
L3	-437.	437.	-437.	437.
L4	-387.	387.	-387.	387.
NF	—	—	—	—
NS	-358.	358.	-354.	354.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-482. Time history of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

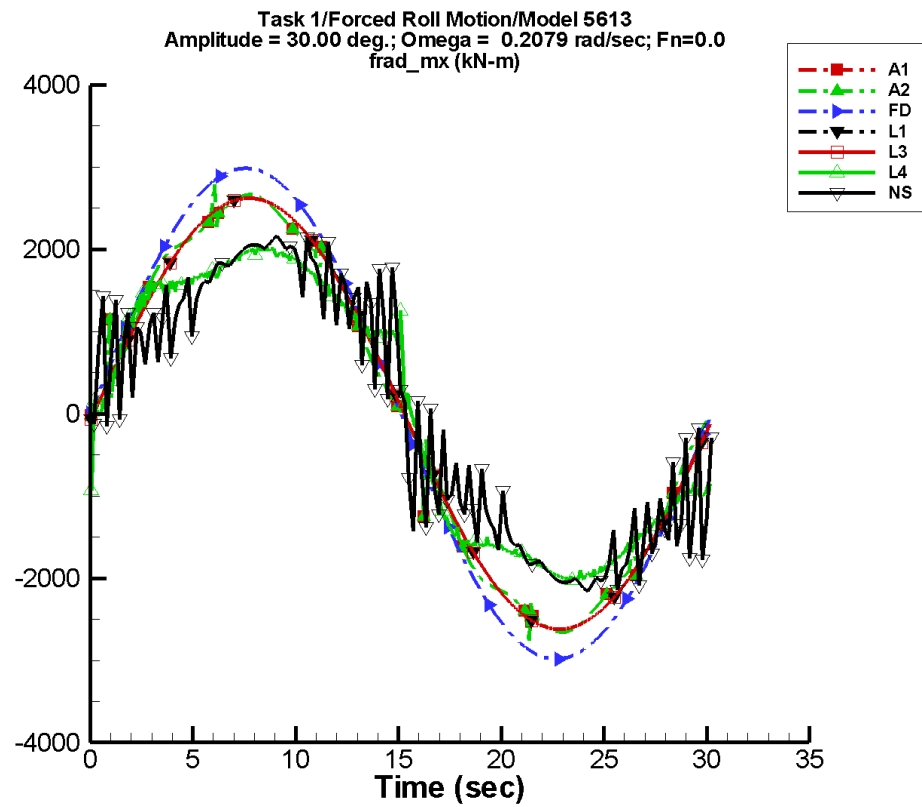
Table C–963. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.04	1.30E+03	0	0.589	5
A2	-1.04	1.30E+03	0	0.589	5
FD	3.17E-05	1.49E+03	0	1.92E-04	86
L1	1.16E-03	1.31E+03	-2	6.25E-04	-33
L3	1.16E-03	1.31E+03	-2	6.17E-04	-38
L4	4.09	1.10E+03	-2	30.2	71
NF	—	—	—	—	—
NS	-0.139	1.04E+03	-5	6.68E-02	43

Table C–964. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.40E+03	1.40E+03	-1.33E+03	1.33E+03
A2	-1.40E+03	1.40E+03	-1.33E+03	1.33E+03
FD	-1.49E+03	1.49E+03	-1.49E+03	1.49E+03
L1	-1.31E+03	1.31E+03	-1.31E+03	1.31E+03
L3	-1.31E+03	1.31E+03	-1.31E+03	1.31E+03
L4	-1.02E+03	1.02E+03	-1.02E+03	1.02E+03
NF	—	—	—	—
NS	-988.	987.	-975.	972.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-483. Time history of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

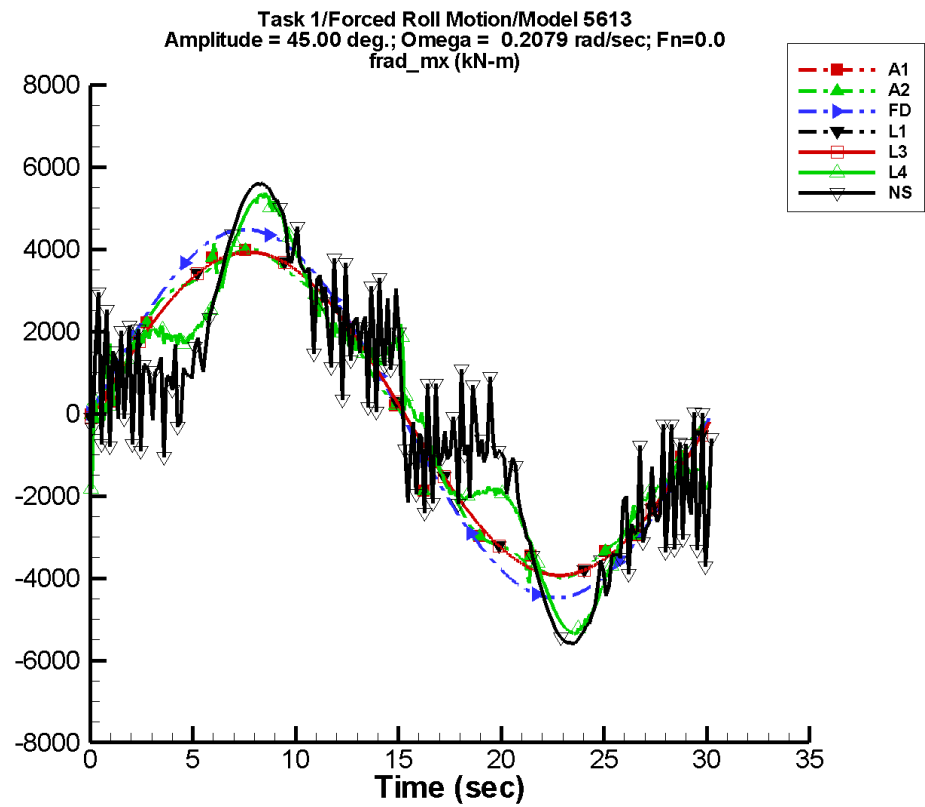
Table C–965. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.09	2.59E+03	0	1.18	5
A2	-2.09	2.59E+03	0	1.18	5
FD	-3.17E-05	2.98E+03	0	4.21E-04	74
L1	4.22E-03	2.62E+03	-2	2.65E-03	60
L3	4.17E-03	2.62E+03	-2	2.69E-03	63
L4	9.29	2.10E+03	-4	61.5	69
NF	—	—	—	—	—
NS	-0.834	2.05E+03	-9	0.506	64

Table C–966. Minimum and maximum of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.80E+03	2.80E+03	-2.65E+03	2.66E+03
A2	-2.80E+03	2.80E+03	-2.65E+03	2.66E+03
FD	-2.98E+03	2.98E+03	-2.98E+03	2.98E+03
L1	-2.62E+03	2.62E+03	-2.62E+03	2.62E+03
L3	-2.62E+03	2.62E+03	-2.62E+03	2.62E+03
L4	-2.02E+03	2.02E+03	-2.01E+03	2.00E+03
NF	—	—	—	—
NS	-2.17E+03	2.16E+03	-2.08E+03	2.07E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-484. Time history of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

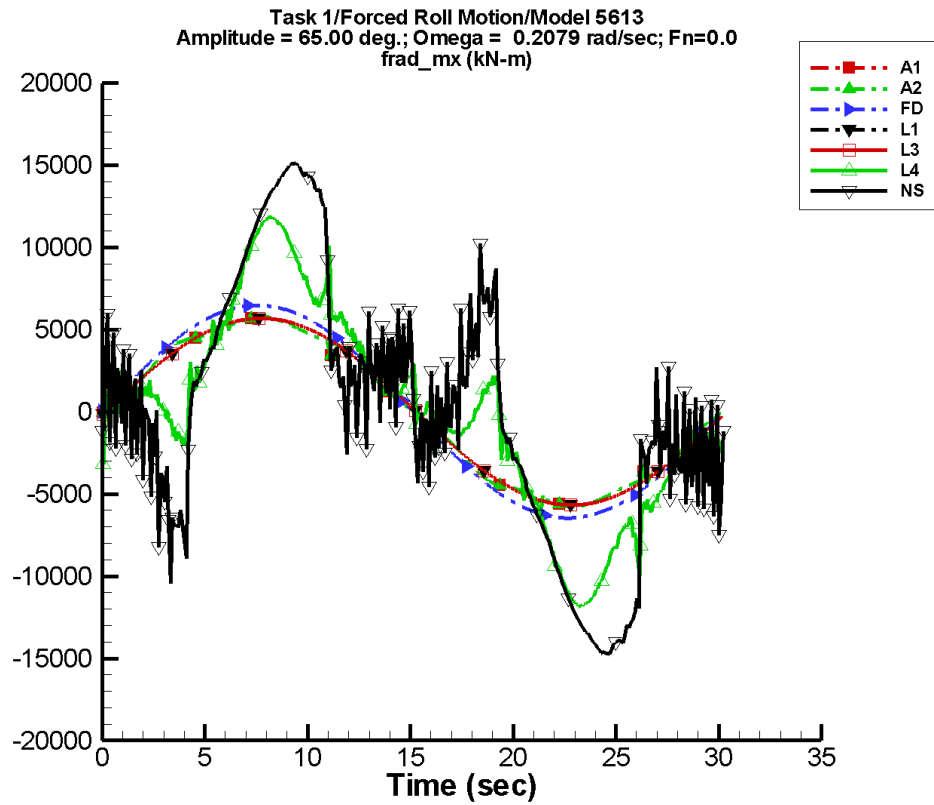
Table C–967. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.13	3.89E+03	0	1.77	5
A2	-3.13	3.89E+03	0	1.77	5
FD	1.75E-04	4.48E+03	0	8.47E-04	128
L1	8.69E-03	3.93E+03	-2	7.88E-03	69
L3	8.53E-03	3.93E+03	-2	7.74E-03	69
L4	-17.8	3.94E+03	-8	69.1	-130
NF	—	—	—	—	—
NS	-4.28	3.84E+03	-15	3.28	88

Table C–968. Minimum and maximum of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.20E+03	4.20E+03	-3.98E+03	3.98E+03
A2	-4.20E+03	4.20E+03	-3.98E+03	3.98E+03
FD	-4.48E+03	4.48E+03	-4.47E+03	4.47E+03
L1	-3.93E+03	3.93E+03	-3.93E+03	3.93E+03
L3	-3.93E+03	3.93E+03	-3.93E+03	3.93E+03
L4	-5.37E+03	5.38E+03	-5.32E+03	5.30E+03
NF	—	—	—	—
NS	-5.63E+03	5.61E+03	-5.59E+03	5.55E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-485. Time history of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

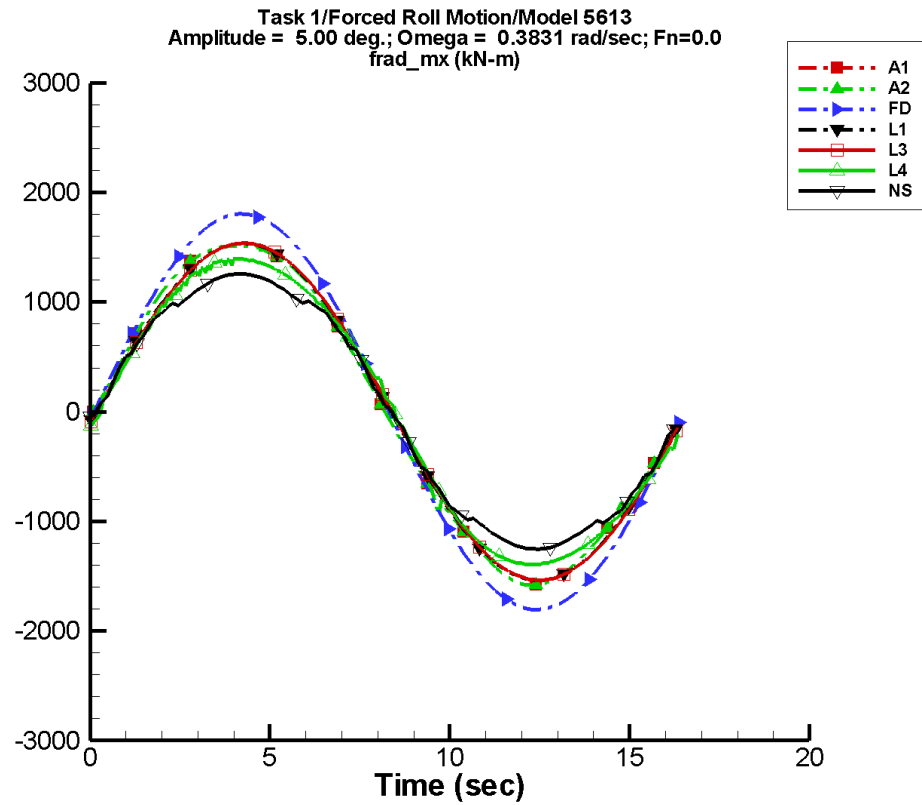
Table C–969. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.53	5.62E+03	0	2.55	5
A2	-4.53	5.62E+03	0	2.55	5
FD	-1.16E-04	6.47E+03	0	8.98E-04	85
L1	2.12E-02	5.68E+03	-2	1.65E-02	77
L3	2.15E-02	5.68E+03	-2	1.63E-02	77
L4	-59.5	7.71E+03	-17	441.	-139
NF	—	—	—	—	—
NS	11.9	8.62E+03	-25	52.6	-120

Table C–970. Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.06E+03	6.07E+03	-5.74E+03	5.75E+03
A2	-6.06E+03	6.07E+03	-5.74E+03	5.75E+03
FD	-6.47E+03	6.47E+03	-6.46E+03	6.46E+03
L1	-5.68E+03	5.68E+03	-5.68E+03	5.68E+03
L3	-5.68E+03	5.68E+03	-5.68E+03	5.68E+03
L4	-1.18E+04	1.19E+04	-1.18E+04	1.18E+04
NF	—	—	—	—
NS	-1.49E+04	1.51E+04	-1.48E+04	1.50E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-486. Time history of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

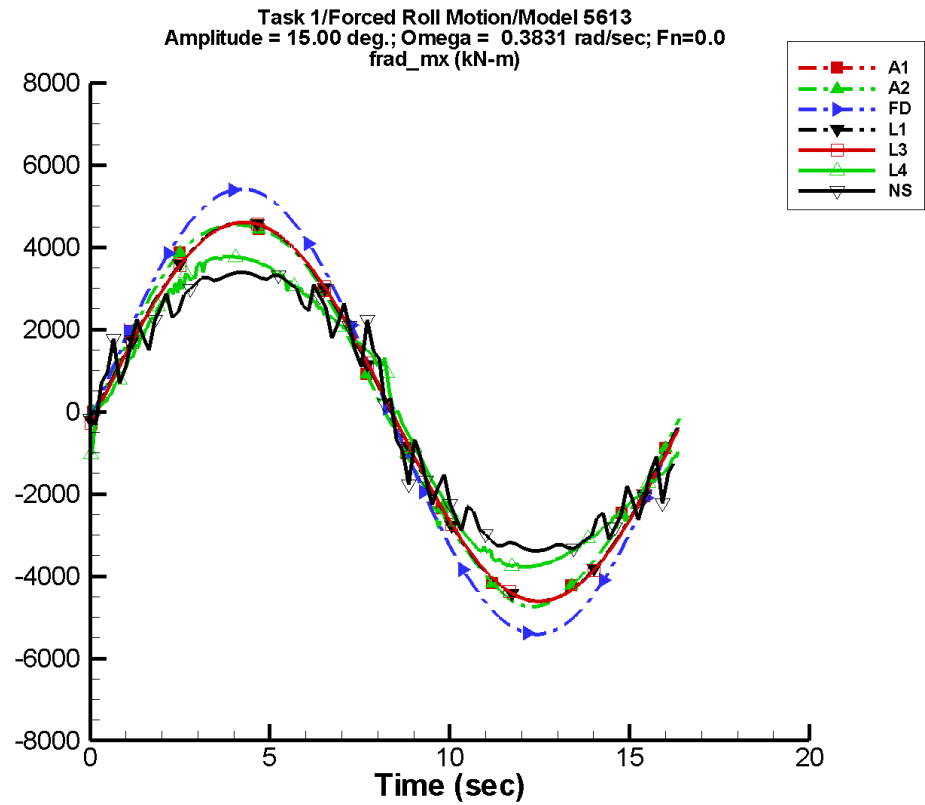
Table C-971. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.60	1.55E+03	-1	3.24	7
A2	-1.60	1.55E+03	-1	3.24	7
FD	4.24E-04	1.80E+03	-3	8.84E-05	154
L1	1.74E-02	1.54E+03	-4	5.51E-02	146
L3	1.66E-02	1.54E+03	-4	5.43E-02	144
L4	6.79E-02	1.42E+03	-4	8.78	114
NF	—	—	—	—	—
NS	3.53E-02	1.28E+03	-3	0.125	160

Table C-972. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.58E+03	1.56E+03	-1.58E+03	1.53E+03
A2	-1.58E+03	1.56E+03	-1.58E+03	1.53E+03
FD	-1.80E+03	1.80E+03	-1.80E+03	1.80E+03
L1	-1.54E+03	1.54E+03	-1.53E+03	1.54E+03
L3	-1.54E+03	1.54E+03	-1.53E+03	1.53E+03
L4	-1.39E+03	1.39E+03	-1.39E+03	1.39E+03
NF	—	—	—	—
NS	-1.25E+03	1.26E+03	-1.24E+03	1.24E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-487. Time history of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

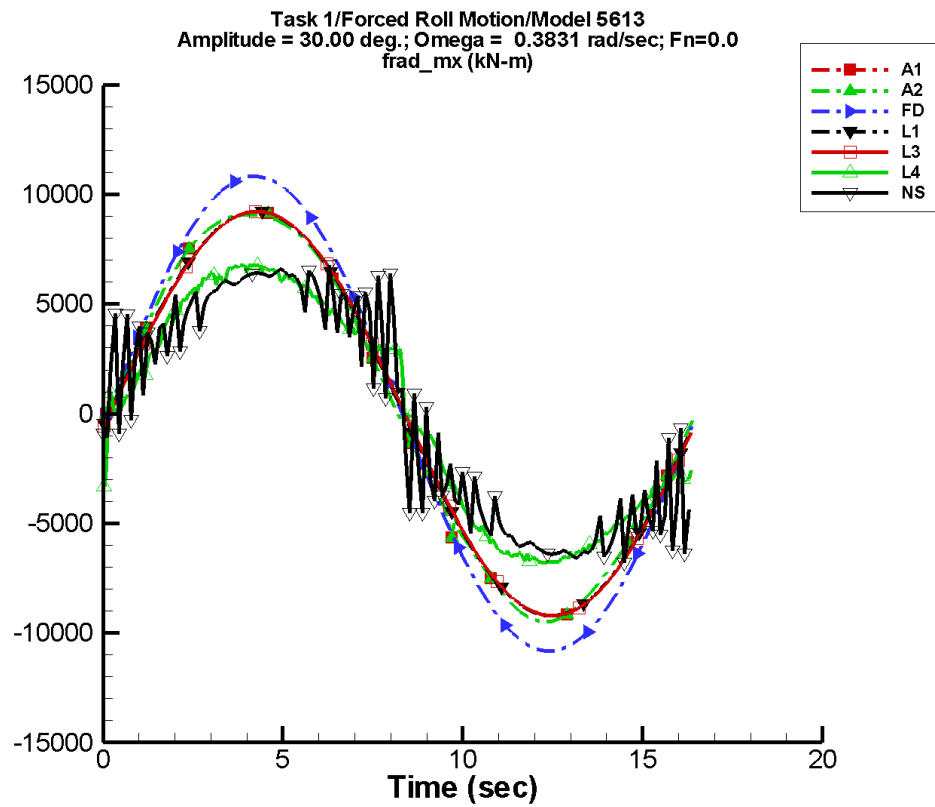
Table C–973. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.81	4.63E+03	-1	9.72	7
A2	-4.81	4.63E+03	-1	9.72	7
FD	1.26E-03	5.41E+03	-3	1.58E-04	179
L1	5.54E-02	4.61E+03	-4	0.167	146
L3	5.30E-02	4.61E+03	-4	0.165	143
L4	-2.67	3.84E+03	-5	40.2	93
NF	—	—	—	—	—
NS	0.254	3.57E+03	-5	0.258	167

Table C–974. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.75E+03	4.67E+03	-4.72E+03	4.57E+03
A2	-4.75E+03	4.67E+03	-4.72E+03	4.57E+03
FD	-5.41E+03	5.41E+03	-5.39E+03	5.39E+03
L1	-4.61E+03	4.61E+03	-4.60E+03	4.61E+03
L3	-4.61E+03	4.61E+03	-4.60E+03	4.60E+03
L4	-3.77E+03	3.77E+03	-3.76E+03	3.76E+03
NF	—	—	—	—
NS	-3.38E+03	3.39E+03	-3.33E+03	3.34E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-488. Time history of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

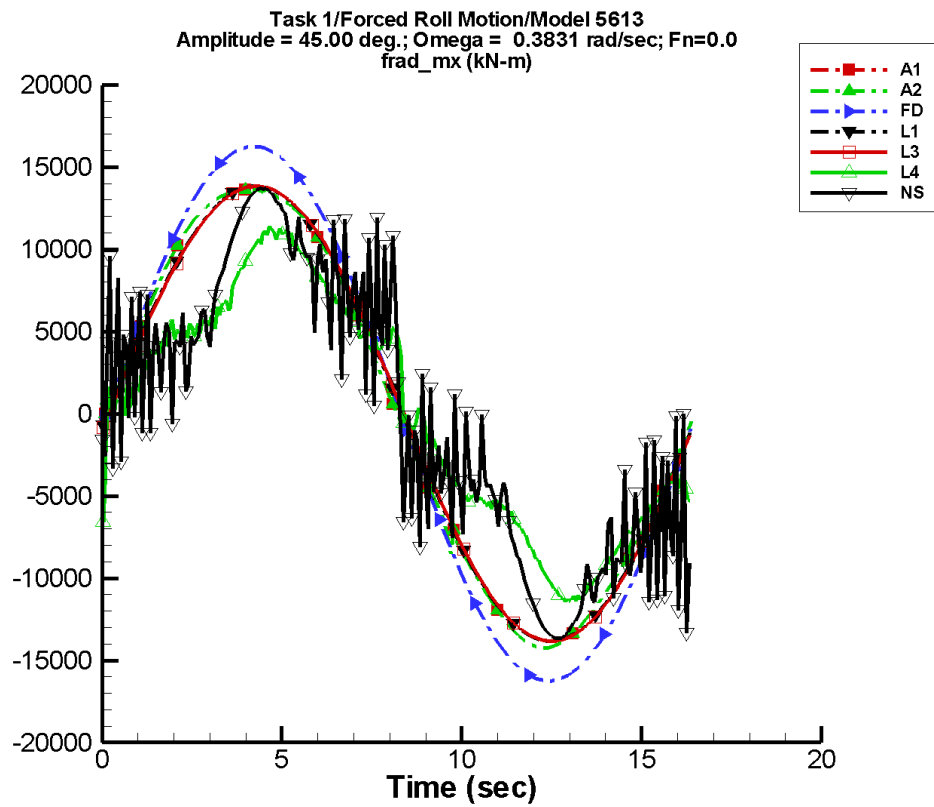
Table C–975. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-9.62	9.27E+03	-1	19.4	7
A2	-9.62	9.27E+03	-1	19.4	7
FD	3.03E-03	1.08E+04	-3	4.28E-04	152
L1	0.120	9.22E+03	-4	0.339	144
L3	0.115	9.22E+03	-4	0.334	142
L4	-6.77	6.87E+03	-7	95.7	77
NF	—	—	—	—	—
NS	1.26	6.72E+03	-9	0.296	-113

Table C–976. Minimum and maximum of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.50E+03	9.34E+03	-9.45E+03	9.15E+03
A2	-9.50E+03	9.34E+03	-9.45E+03	9.15E+03
FD	-1.08E+04	1.08E+04	-1.08E+04	1.08E+04
L1	-9.22E+03	9.22E+03	-9.21E+03	9.21E+03
L3	-9.22E+03	9.22E+03	-9.21E+03	9.21E+03
L4	-6.78E+03	6.78E+03	-6.78E+03	6.73E+03
NF	—	—	—	—
NS	-6.79E+03	6.78E+03	-6.40E+03	6.40E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-489. Time history of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

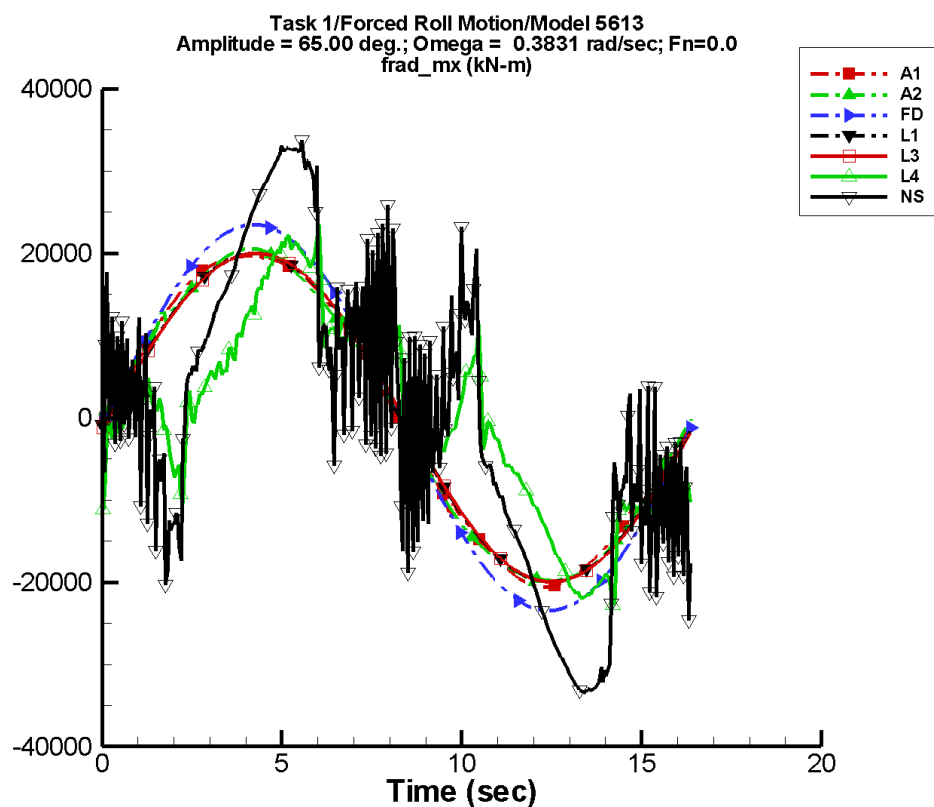
Table C-977. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-14.4	1.39E+04	-1	29.2	7
A2	-14.4	1.39E+04	-1	29.2	7
FD	2.27E-03	1.62E+04	-3	1.07E-03	78
L1	0.190	1.38E+04	-4	0.515	144
L3	0.185	1.38E+04	-4	0.511	141
L4	-34.0	9.64E+03	-15	60.1	56
NF	—	—	—	—	—
NS	3.47	1.09E+04	-14	5.07	-81

Table C-978. Minimum and maximum of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.42E+04	1.40E+04	-1.42E+04	1.37E+04
A2	-1.42E+04	1.40E+04	-1.42E+04	1.37E+04
FD	-1.62E+04	1.62E+04	-1.62E+04	1.62E+04
L1	-1.38E+04	1.38E+04	-1.38E+04	1.38E+04
L3	-1.38E+04	1.38E+04	-1.38E+04	1.38E+04
L4	-1.14E+04	1.15E+04	-1.13E+04	1.11E+04
NF	—	—	—	—
NS	-1.37E+04	1.37E+04	-1.36E+04	1.36E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-490. Time history of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

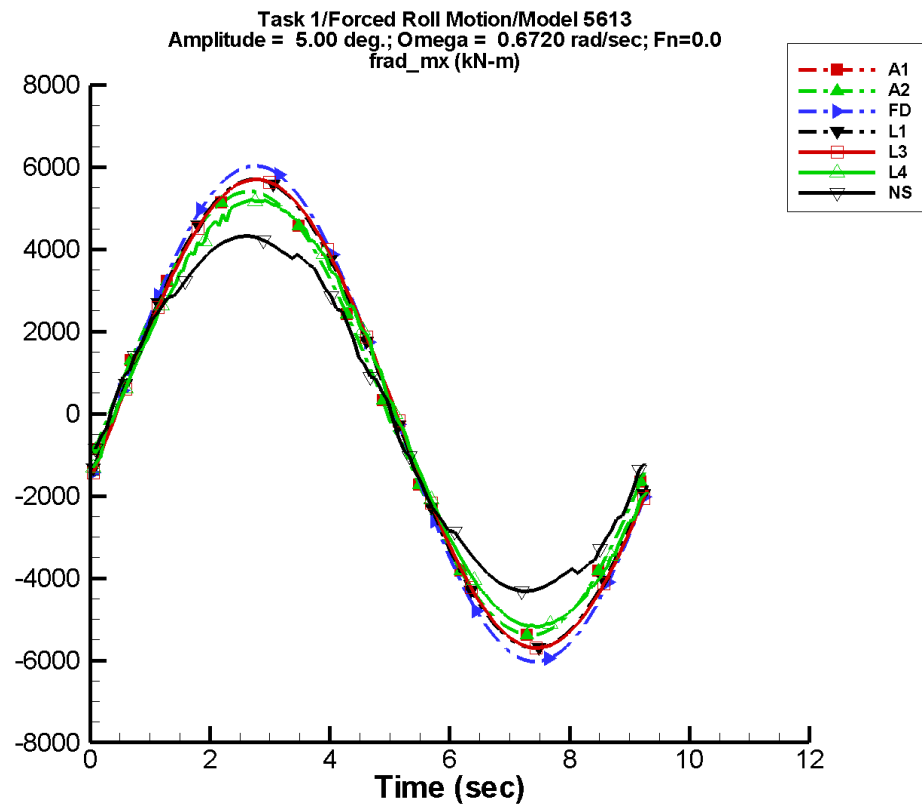
Table C–979. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-20.8	2.01E+04	-1	42.1	7
A2	-9.80	2.01E+04	-1	19.5	-15
FD	8.81E-03	2.35E+04	-3	1.71E-03	-77
L1	0.296	2.00E+04	-4	0.756	142
L3	0.284	2.00E+04	-4	0.749	140
L4	-103.	1.48E+04	-33	105.	-118
NF	—	—	—	—	—
NS	-10.7	2.08E+04	-26	138.	61

Table C–980. Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.06E+04	2.02E+04	-2.05E+04	1.98E+04
A2	-2.04E+04	2.05E+04	-2.02E+04	2.04E+04
FD	-2.35E+04	2.35E+04	-2.34E+04	2.34E+04
L1	-2.00E+04	2.00E+04	-1.99E+04	2.00E+04
L3	-2.00E+04	2.00E+04	-1.99E+04	2.00E+04
L4	-2.28E+04	2.35E+04	-2.20E+04	2.13E+04
NF	—	—	—	—
NS	-3.35E+04	3.37E+04	-3.33E+04	3.28E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-491. Time history of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

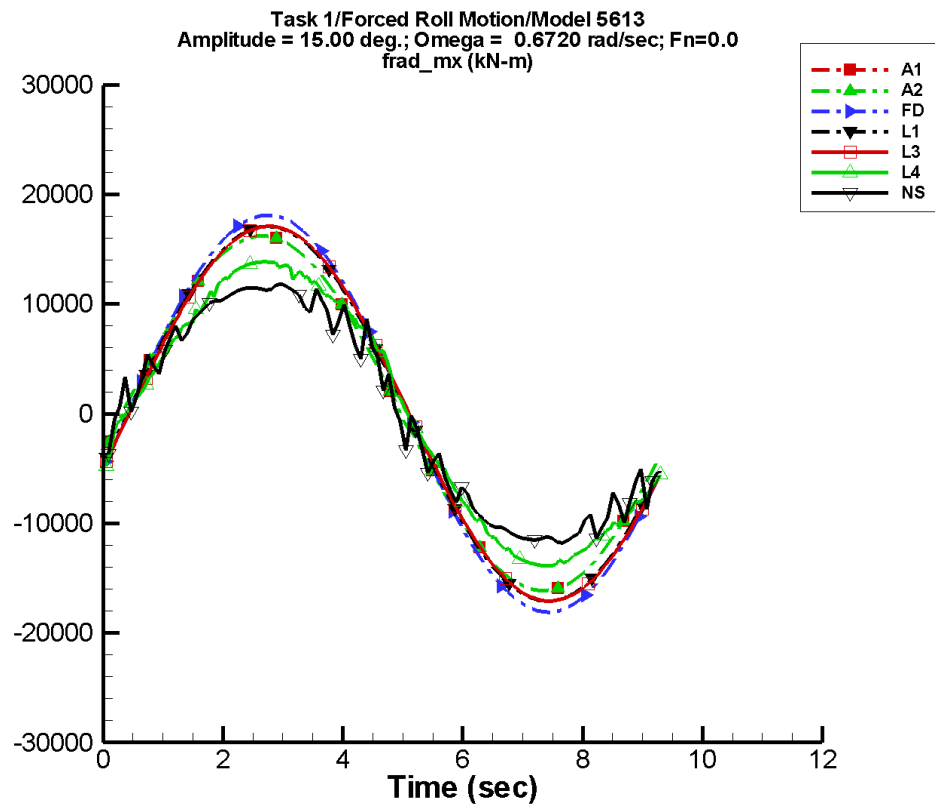
Table C–981. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.50	5.36E+03	-12	9.21	-94
A2	-1.50	5.36E+03	-12	9.21	-94
FD	-1.03E-02	6.03E+03	-16	1.33E-02	-158
L1	4.80E-02	5.70E+03	-16	0.170	111
L3	4.50E-02	5.70E+03	-17	0.168	108
L4	-2.98	5.21E+03	-17	29.8	115
NF	—	—	—	—	—
NS	-0.929	4.40E+03	-12	1.26	151

Table C–982. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.38E+03	5.40E+03	-5.32E+03	5.34E+03
A2	-5.38E+03	5.40E+03	-5.32E+03	5.34E+03
FD	-6.03E+03	6.03E+03	-5.97E+03	5.96E+03
L1	-5.70E+03	5.70E+03	-5.68E+03	5.68E+03
L3	-5.70E+03	5.70E+03	-5.68E+03	5.67E+03
L4	-5.18E+03	5.21E+03	-5.15E+03	5.17E+03
NF	—	—	—	—
NS	-4.32E+03	4.32E+03	-4.26E+03	4.27E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-492. Time history of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

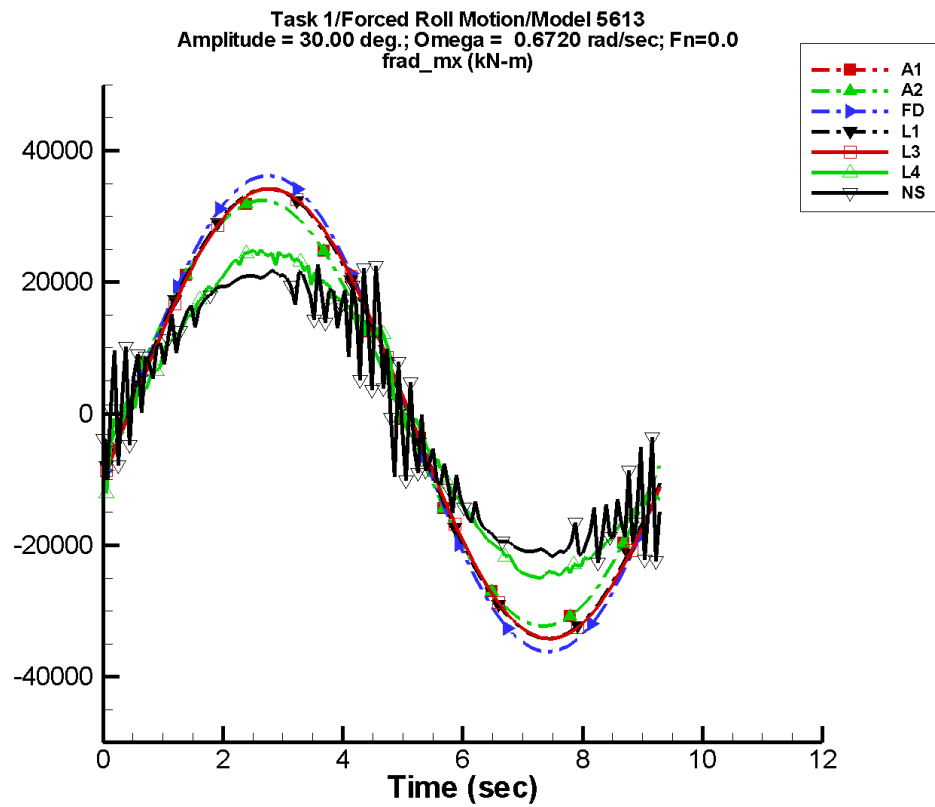
Table C–983. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.51	1.61E+04	-12	27.6	-94
A2	-4.51	1.61E+04	-12	27.6	-94
FD	-3.13E-02	1.81E+04	-16	3.86E-02	-158
L1	0.150	1.71E+04	-16	0.517	111
L3	0.144	1.71E+04	-17	0.506	107
L4	27.8	1.39E+04	-17	99.3	115
NF	—	—	—	—	—
NS	-1.74	1.21E+04	-14	4.82	128

Table C–984. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.61E+04	1.62E+04	-1.59E+04	1.60E+04
A2	-1.61E+04	1.62E+04	-1.59E+04	1.60E+04
FD	-1.81E+04	1.81E+04	-1.79E+04	1.79E+04
L1	-1.71E+04	1.71E+04	-1.70E+04	1.70E+04
L3	-1.71E+04	1.71E+04	-1.70E+04	1.70E+04
L4	-1.39E+04	1.39E+04	-1.38E+04	1.38E+04
NF	—	—	—	—
NS	-1.18E+04	1.18E+04	-1.15E+04	1.15E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-493. Time history of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

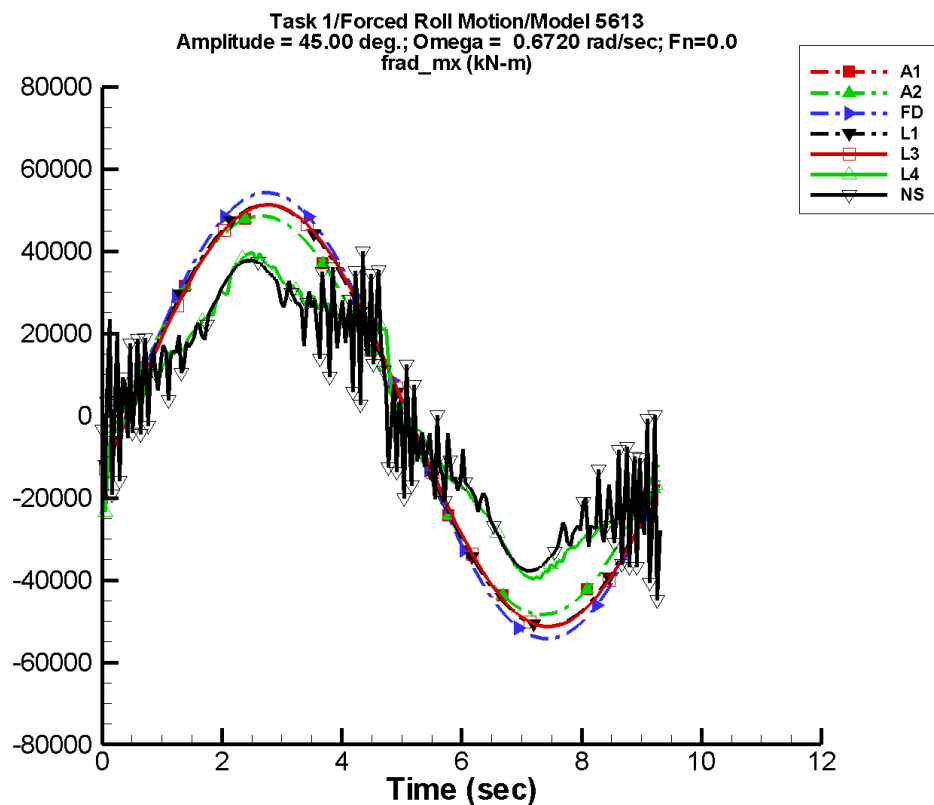
Table C–985. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-9.01	3.22E+04	-12	55.3	-94
A2	-9.01	3.22E+04	-12	55.3	-94
FD	-6.20E-02	3.62E+04	-16	7.80E-02	-158
L1	0.330	3.42E+04	-16	1.06	111
L3	0.317	3.42E+04	-17	1.05	107
L4	-50.0	2.47E+04	-18	142.	84
NF	—	—	—	—	—
NS	0.491	2.22E+04	-15	7.83	123

Table C–986. Minimum and maximum of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.23E+04	3.24E+04	-3.19E+04	3.20E+04
A2	-3.23E+04	3.24E+04	-3.19E+04	3.20E+04
FD	-3.62E+04	3.62E+04	-3.58E+04	3.58E+04
L1	-3.42E+04	3.42E+04	-3.41E+04	3.41E+04
L3	-3.42E+04	3.42E+04	-3.41E+04	3.40E+04
L4	-2.50E+04	2.50E+04	-2.46E+04	2.45E+04
NF	—	—	—	—
NS	-2.26E+04	2.27E+04	-2.10E+04	2.11E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-494. Time history of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

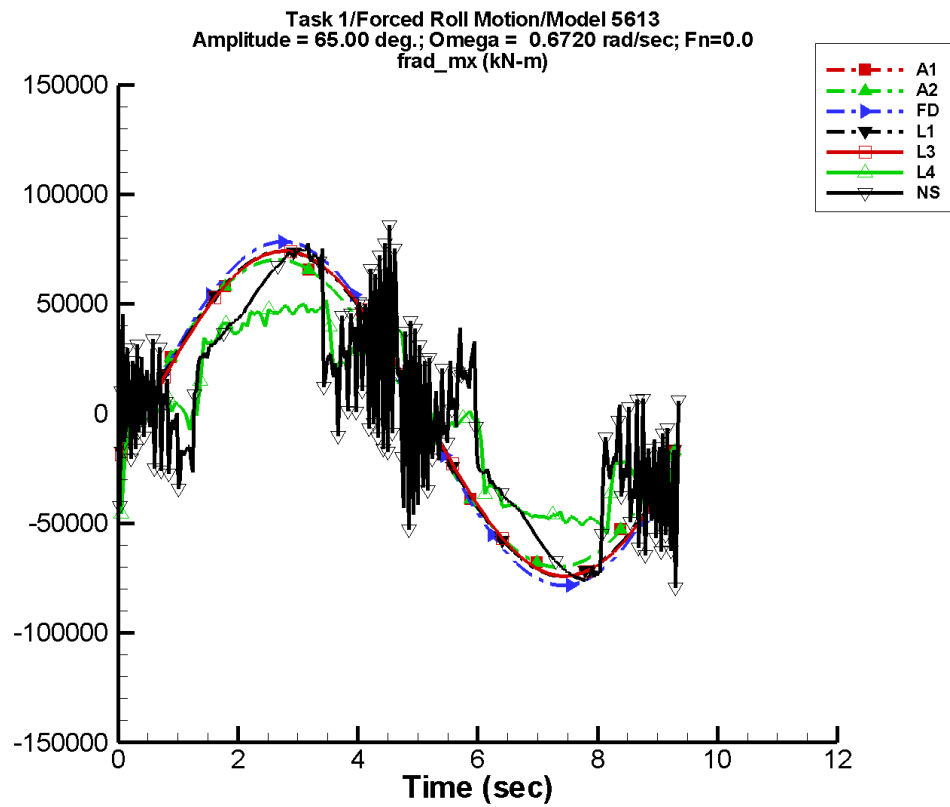
Table C–987. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-13.5	4.83E+04	-12	82.9	-94
A2	-13.5	4.83E+04	-12	82.9	-94
FD	-8.94E-02	5.43E+04	-16	0.123	-158
L1	0.543	5.13E+04	-16	1.62	110
L3	0.511	5.13E+04	-17	1.61	107
L4	-95.2	3.55E+04	-19	145.	164
NF	—	—	—	—	—
NS	5.68	3.33E+04	-16	18.5	-148

Table C–988. Minimum and maximum of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.84E+04	4.86E+04	-4.78E+04	4.80E+04
A2	-4.84E+04	4.86E+04	-4.78E+04	4.80E+04
FD	-5.43E+04	5.43E+04	-5.38E+04	5.37E+04
L1	-5.13E+04	5.13E+04	-5.11E+04	5.11E+04
L3	-5.13E+04	5.13E+04	-5.11E+04	5.11E+04
L4	-3.97E+04	3.97E+04	-3.89E+04	3.86E+04
NF	—	—	—	—
NS	-4.49E+04	3.99E+04	-3.74E+04	3.75E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-495. Time history of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

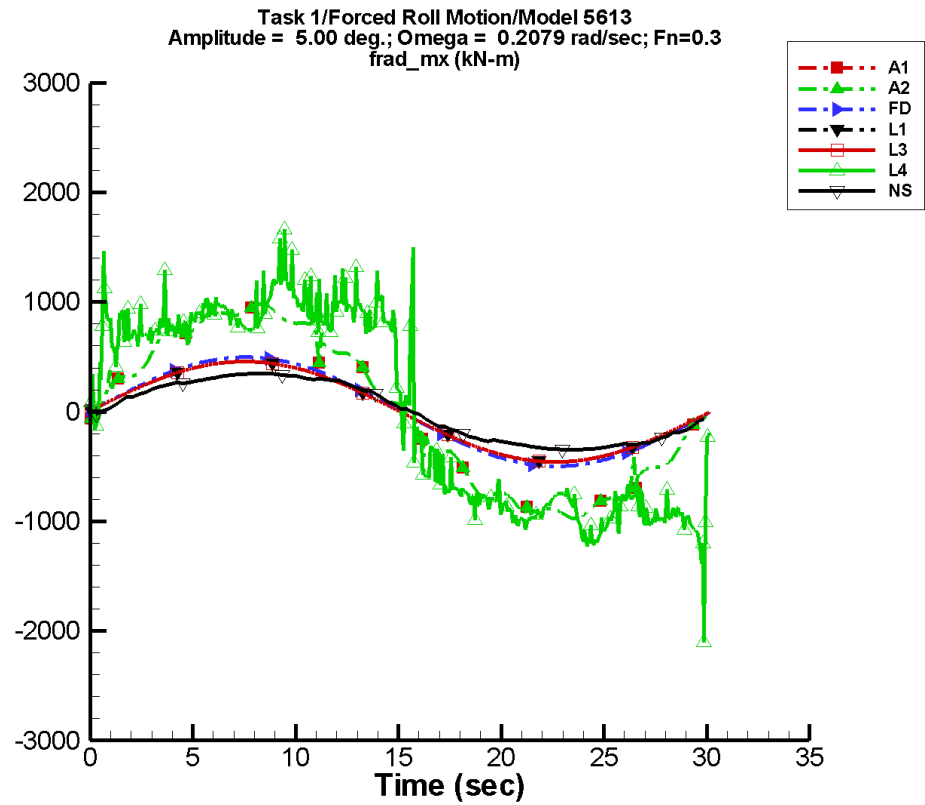
Table C–989. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-19.5	6.97E+04	-12	120.	-94
A2	-19.5	6.97E+04	-12	120.	-94
FD	-0.131	7.84E+04	-16	0.172	-158
L1	0.845	7.41E+04	-16	2.41	109
L3	0.809	7.41E+04	-17	2.38	106
L4	-247.	4.64E+04	-24	719.	173
NF	—	—	—	—	—
NS	-24.2	5.35E+04	-23	243.	57

Table C–990. Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.99E+04	7.02E+04	-6.91E+04	6.94E+04
A2	-6.99E+04	7.02E+04	-6.91E+04	6.94E+04
FD	-7.84E+04	7.84E+04	-7.76E+04	7.75E+04
L1	-7.41E+04	7.41E+04	-7.38E+04	7.38E+04
L3	-7.41E+04	7.41E+04	-7.38E+04	7.38E+04
L4	-5.50E+04	5.18E+04	-5.00E+04	4.87E+04
NF	—	—	—	—
NS	-7.92E+04	8.61E+04	-7.53E+04	7.43E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-496. Time history of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

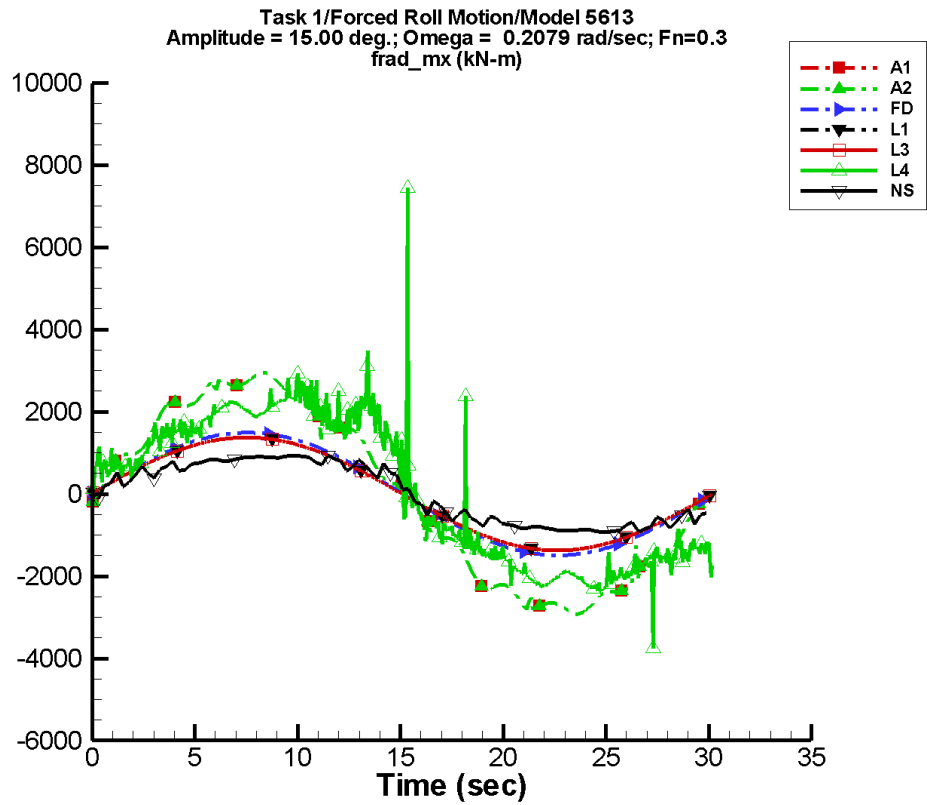
Table C–991. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-0.405	932.	-1	0.911	36
A2	-0.405	932.	-1	0.911	36
FD	-8.74E-06	497.	0	1.26E-04	83
L1	-1.70E-02	458.	0	7.21E-03	68
L3	1.54E-02	458.	0	4.49E-03	74
L4	51.0	1.14E+03	-8	112.	82
NF	—	—	—	—	—
NS	6.15E-02	360.	-7	0.103	-29

Table C–992. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-975.	983.	-967.	973.
A2	-975.	983.	-967.	973.
FD	-497.	497.	-497.	497.
L1	-458.	458.	-458.	458.
L3	-458.	458.	-458.	458.
L4	-2.10E+03	1.69E+03	-1.25E+03	1.31E+03
NF	—	—	—	—
NS	-347.	348.	-343.	344.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-497. Time history of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

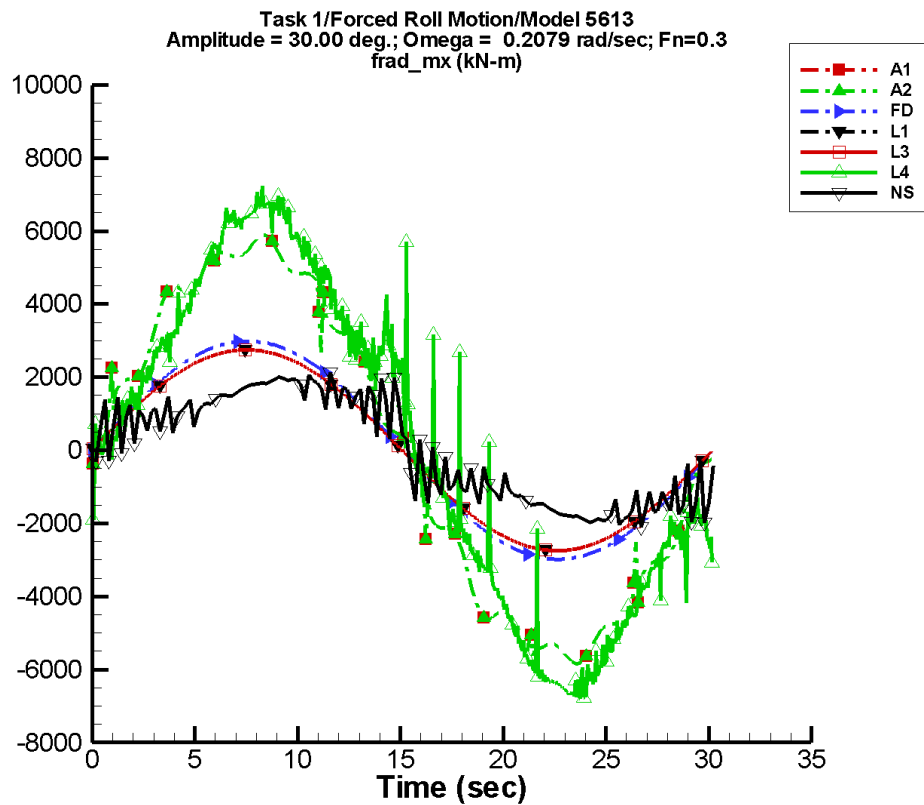
Table C–993. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.21	2.79E+03	-1	2.73	36
A2	-1.21	2.79E+03	-1	2.73	36
FD	3.17E-05	1.49E+03	0	1.92E-04	86
L1	-1.71E-02	1.37E+03	0	9.87E-03	69
L3	1.71E-02	1.37E+03	0	6.08E-03	58
L4	107.	2.33E+03	-11	160.	100
NF	—	—	—	—	—
NS	0.355	973.	-9	0.812	-21

Table C–994. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.92E+03	2.95E+03	-2.90E+03	2.92E+03
A2	-2.92E+03	2.95E+03	-2.90E+03	2.92E+03
FD	-1.49E+03	1.49E+03	-1.49E+03	1.49E+03
L1	-1.37E+03	1.37E+03	-1.37E+03	1.37E+03
L3	-1.37E+03	1.37E+03	-1.37E+03	1.37E+03
L4	-3.75E+03	7.45E+03	-2.31E+03	2.70E+03
NF	—	—	—	—
NS	-930.	938.	-895.	903.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-498. Time history of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

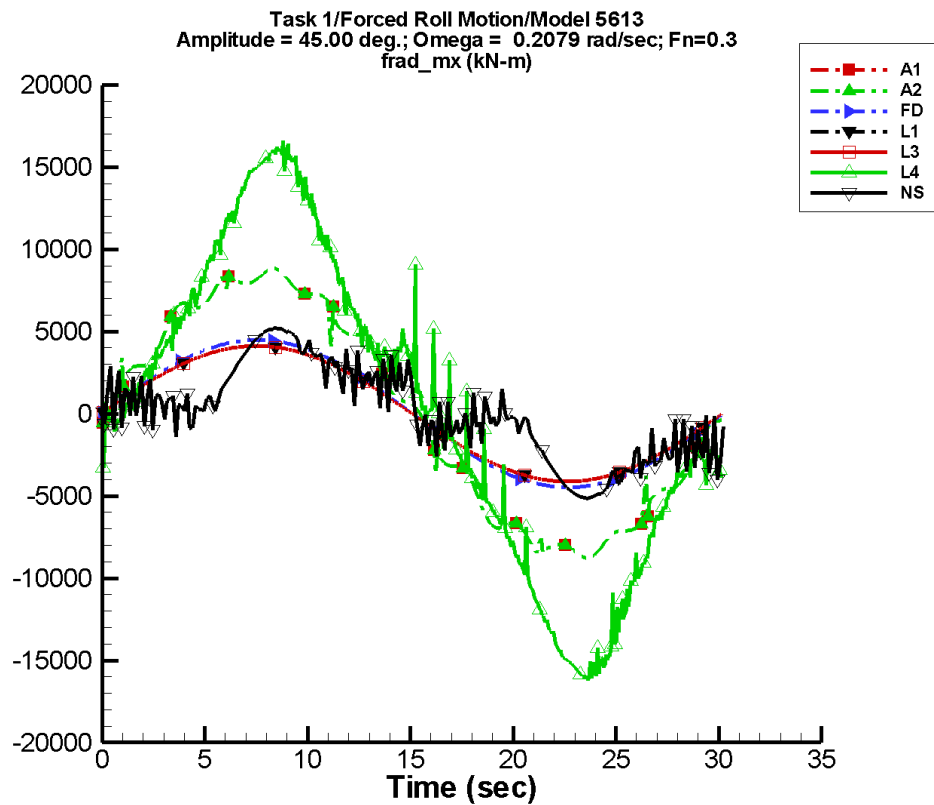
Table C–995. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.43	5.59E+03	-1	5.47	36
A2	-2.43	5.59E+03	-1	5.47	36
FD	-3.17E-05	2.98E+03	0	4.21E-04	74
L1	-1.40E-02	2.75E+03	0	9.06E-03	96
L3	2.13E-02	2.75E+03	0	6.23E-04	153
L4	124.	5.99E+03	-10	59.6	-139
NF	—	—	—	—	—
NS	0.483	1.87E+03	-13	2.37	-13

Table C–996. Minimum and maximum of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.85E+03	5.89E+03	-5.80E+03	5.84E+03
A2	-5.85E+03	5.89E+03	-5.80E+03	5.84E+03
FD	-2.98E+03	2.98E+03	-2.98E+03	2.98E+03
L1	-2.75E+03	2.75E+03	-2.75E+03	2.75E+03
L3	-2.75E+03	2.75E+03	-2.75E+03	2.75E+03
L4	-6.80E+03	7.23E+03	-6.64E+03	6.80E+03
NF	—	—	—	—
NS	-2.12E+03	2.13E+03	-1.89E+03	1.92E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-499. Time history of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

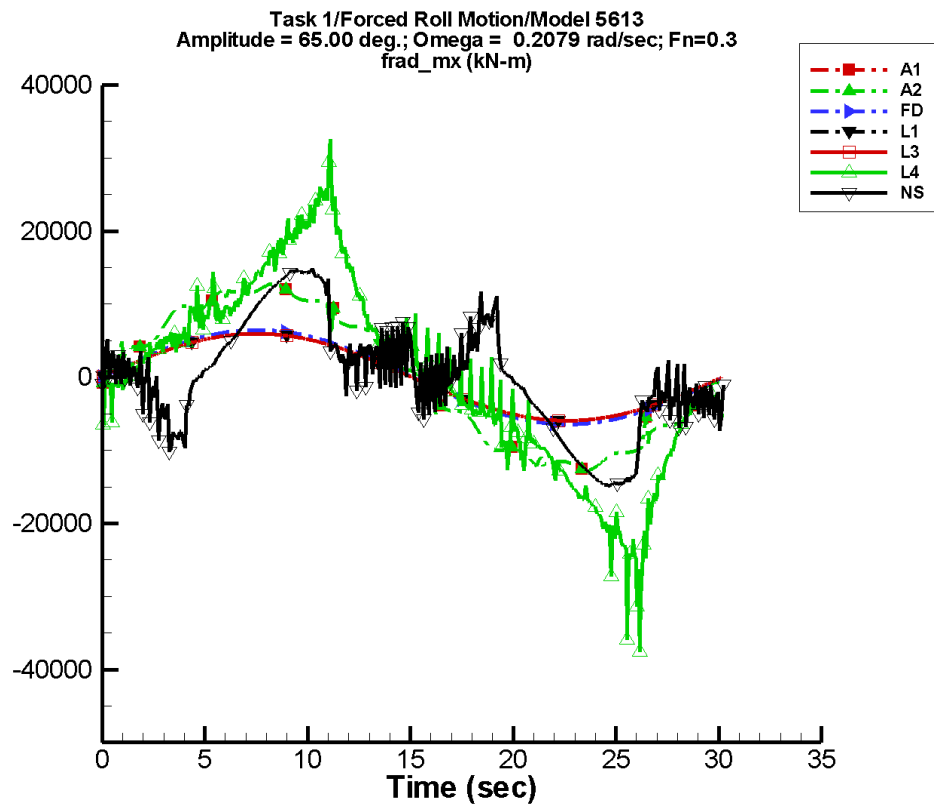
Table C–997. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.64	8.38E+03	-1	8.20	36
A2	-3.64	8.38E+03	-1	8.20	36
FD	1.75E-04	4.48E+03	0	8.47E-04	128
L1	-1.13E-02	4.12E+03	0	1.26E-02	85
L3	2.60E-02	4.12E+03	0	6.06E-04	-118
L4	74.9	1.27E+04	-9	469.	-117
NF	—	—	—	—	—
NS	-1.39	3.47E+03	-21	4.91	29

Table C–998. Minimum and maximum of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.77E+03	8.84E+03	-8.70E+03	8.76E+03
A2	-8.77E+03	8.84E+03	-8.70E+03	8.76E+03
FD	-4.48E+03	4.48E+03	-4.47E+03	4.47E+03
L1	-4.12E+03	4.12E+03	-4.12E+03	4.12E+03
L3	-4.12E+03	4.12E+03	-4.12E+03	4.12E+03
L4	-1.62E+04	1.66E+04	-1.59E+04	1.61E+04
NF	—	—	—	—
NS	-5.17E+03	5.20E+03	-5.09E+03	5.13E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-500. Time history of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

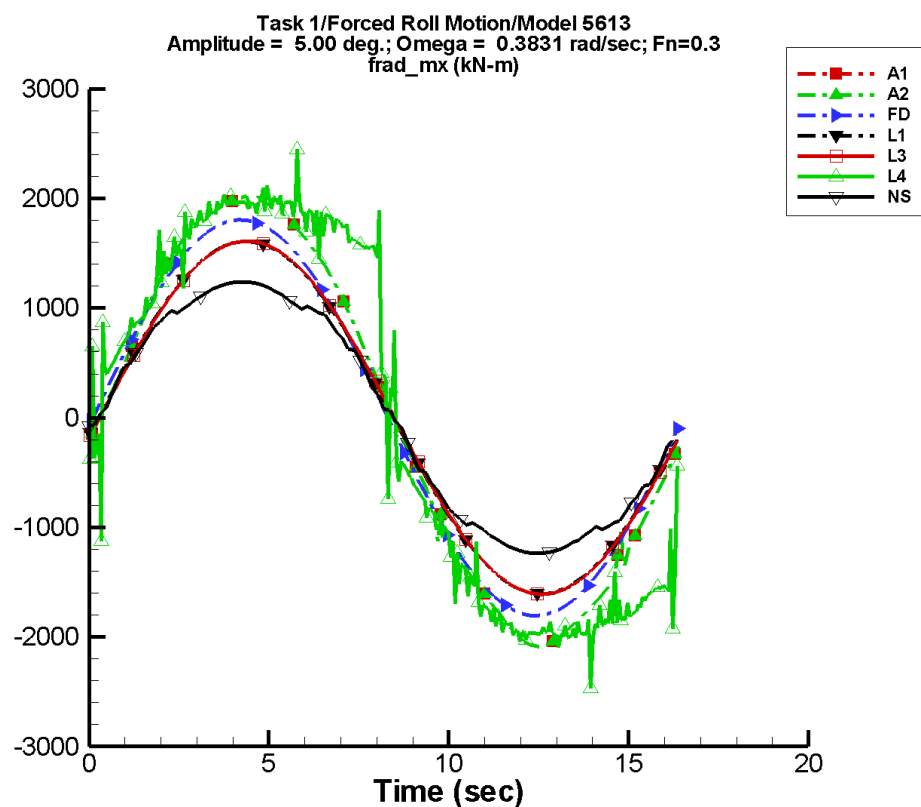
Table C–999. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-5.26	1.21E+04	-1	11.8	36
A2	-5.26	1.21E+04	-1	11.8	36
FD	-1.16E-04	6.47E+03	0	8.98E-04	85
L1	2.80E-04	5.95E+03	0	2.38E-02	96
L3	3.88E-02	5.95E+03	0	3.59E-03	136
L4	297.	1.71E+04	-20	805.	142
NF	—	—	—	—	—
NS	-53.7	8.13E+03	-32	83.8	50

Table C–1000. Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.27E+04	1.28E+04	-1.26E+04	1.26E+04
A2	-1.27E+04	1.28E+04	-1.26E+04	1.26E+04
FD	-6.47E+03	6.47E+03	-6.46E+03	6.46E+03
L1	-5.95E+03	5.95E+03	-5.95E+03	5.95E+03
L3	-5.95E+03	5.95E+03	-5.95E+03	5.95E+03
L4	-3.76E+04	3.26E+04	-2.78E+04	2.65E+04
NF	—	—	—	—
NS	-1.52E+04	1.49E+04	-1.51E+04	1.45E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-501. Time history of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

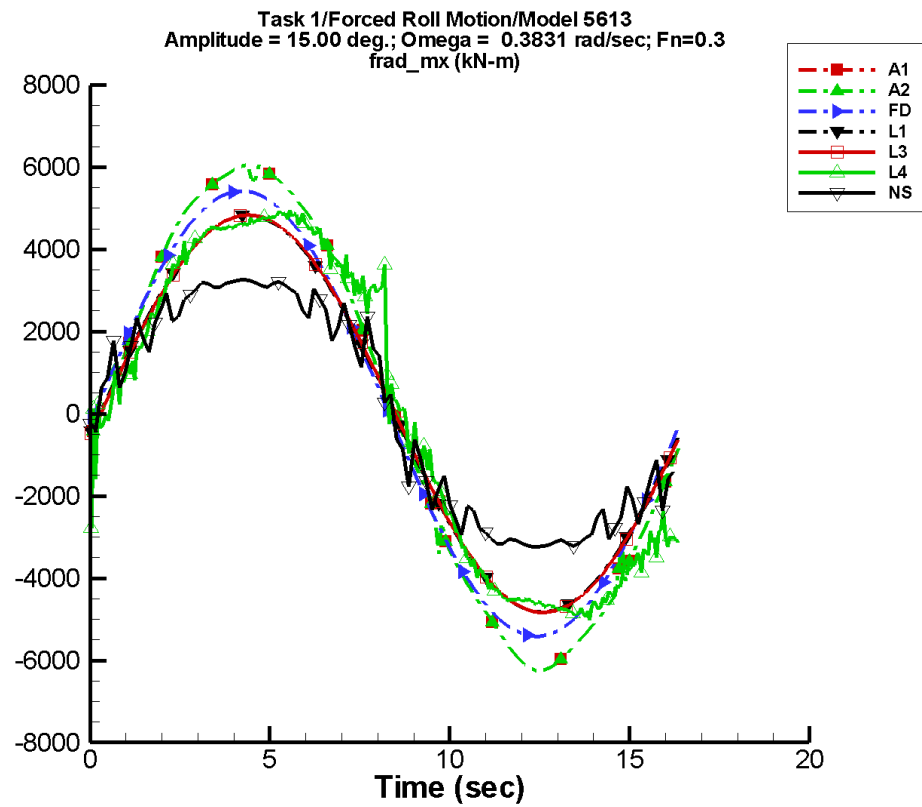
Table C–1001. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.28	2.02E+03	-6	6.62	68
A2	-1.28	2.02E+03	-6	6.62	68
FD	4.24E-04	1.80E+03	-3	8.84E-05	154
L1	3.51E-02	1.61E+03	-6	2.11E-03	141
L3	4.31E-02	1.61E+03	-6	7.87E-03	146
L4	30.5	2.20E+03	-12	59.8	123
NF	—	—	—	—	—
NS	0.368	1.27E+03	-5	0.243	-135

Table C–1002. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.08E+03	2.02E+03	-2.07E+03	1.99E+03
A2	-2.08E+03	2.02E+03	-2.07E+03	1.99E+03
FD	-1.80E+03	1.80E+03	-1.80E+03	1.80E+03
L1	-1.61E+03	1.61E+03	-1.61E+03	1.61E+03
L3	-1.61E+03	1.61E+03	-1.61E+03	1.61E+03
L4	-2.47E+03	2.46E+03	-2.01E+03	2.00E+03
NF	—	—	—	—
NS	-1.24E+03	1.24E+03	-1.22E+03	1.23E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-502. Time history of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

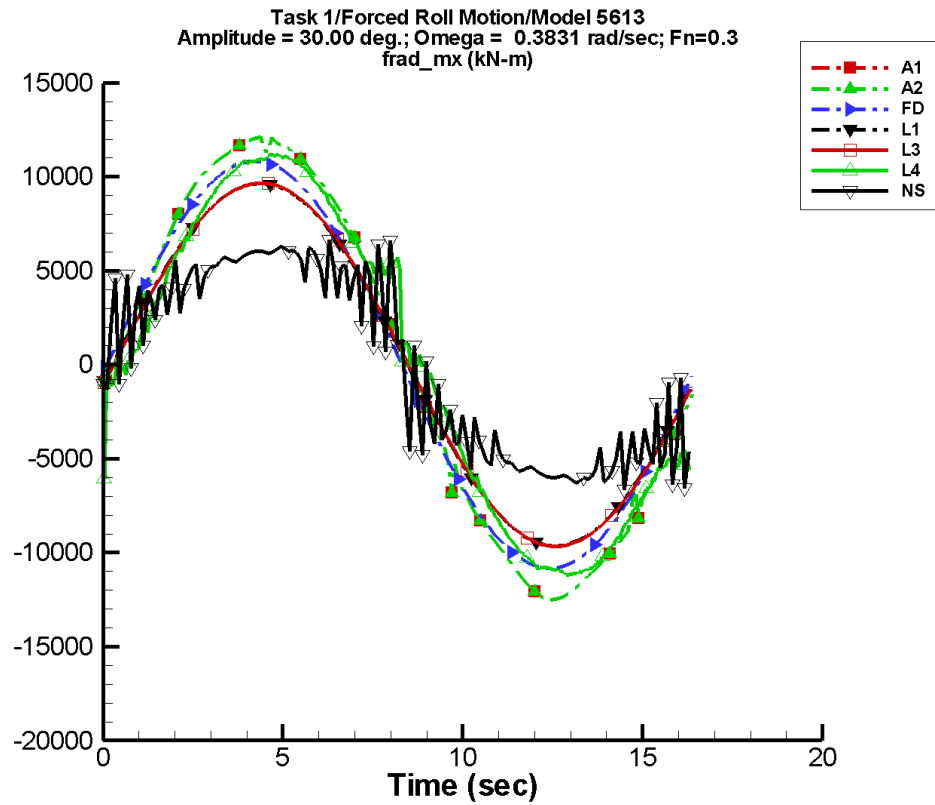
Table C–1003. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.83	6.05E+03	-6	19.8	68
A2	-3.83	6.05E+03	-6	19.8	68
FD	1.26E-03	5.41E+03	-3	1.58E-04	179
L1	4.48E-02	4.82E+03	-6	1.48E-02	113
L3	5.02E-02	4.83E+03	-6	2.86E-02	130
L4	38.6	5.14E+03	-14	70.7	118
NF	—	—	—	—	—
NS	3.02	3.46E+03	-6	1.72	-111

Table C–1004. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.25E+03	6.06E+03	-6.21E+03	5.96E+03
A2	-6.25E+03	6.06E+03	-6.21E+03	5.96E+03
FD	-5.41E+03	5.41E+03	-5.39E+03	5.39E+03
L1	-4.82E+03	4.82E+03	-4.82E+03	4.82E+03
L3	-4.83E+03	4.83E+03	-4.83E+03	4.83E+03
L4	-5.02E+03	4.96E+03	-4.86E+03	4.86E+03
NF	—	—	—	—
NS	-3.24E+03	3.25E+03	-3.19E+03	3.20E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-503. Time history of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

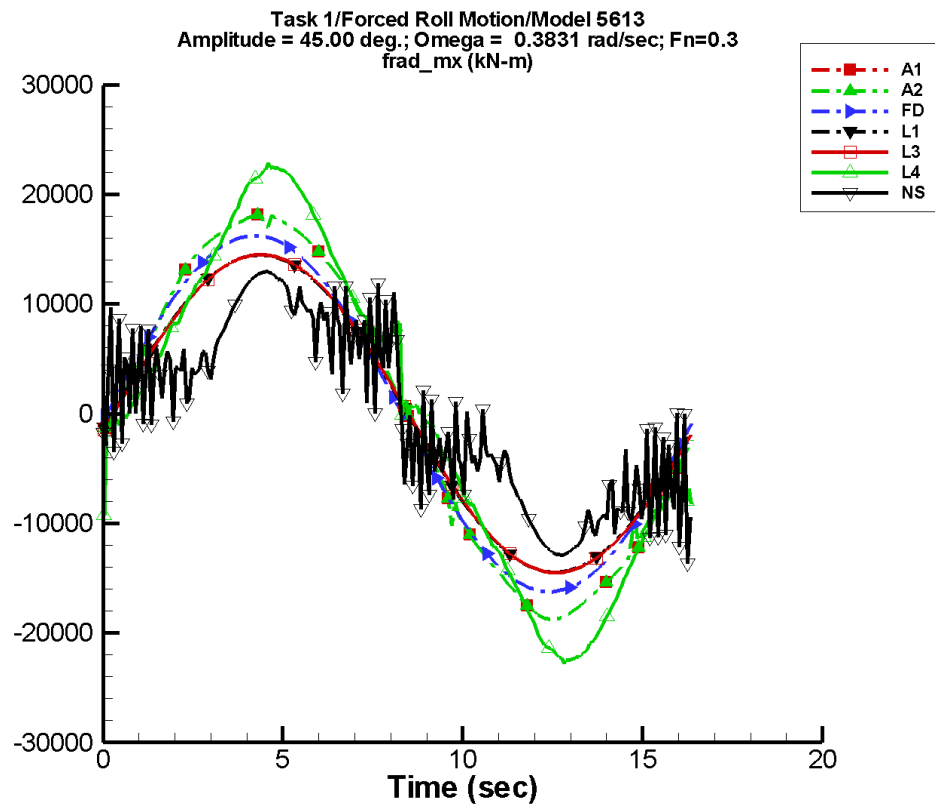
Table C–1005. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-7.67	1.21E+04	-6	39.7	68
A2	-7.67	1.21E+04	-6	39.7	68
FD	3.03E-03	1.08E+04	-3	4.28E-04	152
L1	6.17E-02	9.65E+03	-6	2.99E-02	106
L3	6.20E-02	9.66E+03	-6	5.25E-02	122
L4	-9.69	1.11E+04	-14	52.2	22
NF	—	—	—	—	—
NS	8.98	6.42E+03	-9	5.52	-102

Table C–1006. Minimum and maximum of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.25E+04	1.21E+04	-1.24E+04	1.19E+04
A2	-1.25E+04	1.21E+04	-1.24E+04	1.19E+04
FD	-1.08E+04	1.08E+04	-1.08E+04	1.08E+04
L1	-9.65E+03	9.65E+03	-9.63E+03	9.63E+03
L3	-9.66E+03	9.66E+03	-9.65E+03	9.65E+03
L4	-1.12E+04	1.12E+04	-1.11E+04	1.11E+04
NF	—	—	—	—
NS	-6.64E+03	6.64E+03	-6.06E+03	6.07E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-504. Time history of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

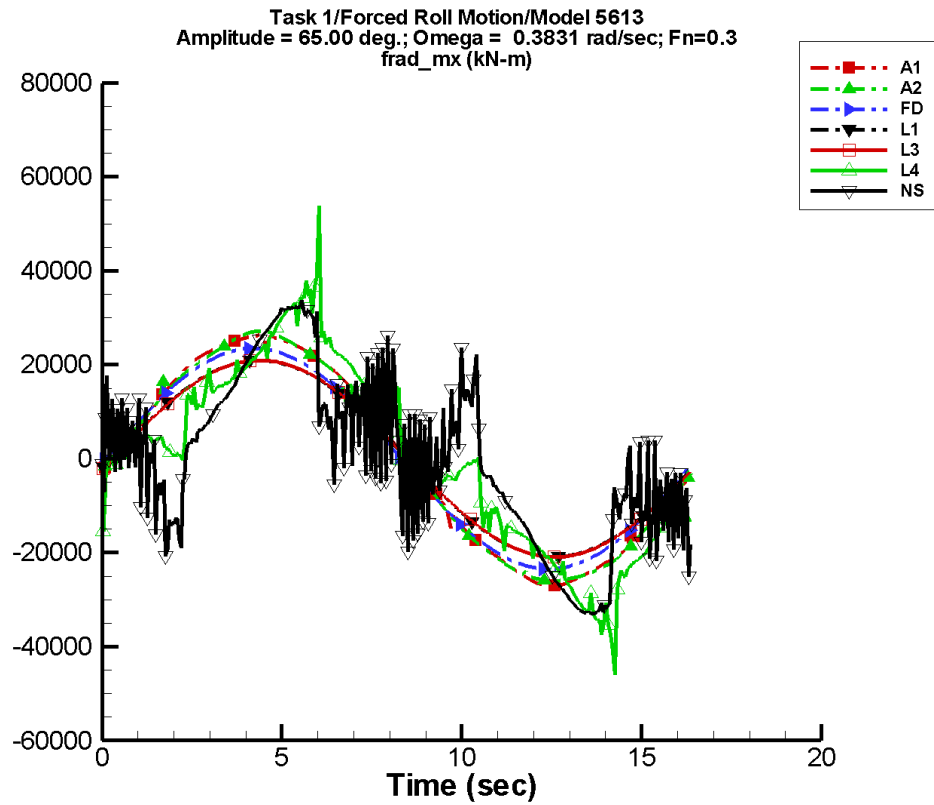
Table C–1007. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-11.5	1.81E+04	-6	59.5	68
A2	-11.5	1.81E+04	-6	59.5	68
FD	2.27E-03	1.62E+04	-3	1.07E-03	78
L1	8.96E-02	1.45E+04	-6	6.03E-02	103
L3	8.44E-02	1.45E+04	-6	9.44E-02	119
L4	-117.	1.99E+04	-15	241.	-40
NF	—	—	—	—	—
NS	19.0	1.03E+04	-15	13.6	-95

Table C–1008. Minimum and maximum of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.88E+04	1.82E+04	-1.86E+04	1.79E+04
A2	-1.88E+04	1.82E+04	-1.86E+04	1.79E+04
FD	-1.62E+04	1.62E+04	-1.62E+04	1.62E+04
L1	-1.45E+04	1.45E+04	-1.44E+04	1.44E+04
L3	-1.45E+04	1.45E+04	-1.45E+04	1.45E+04
L4	-2.28E+04	2.29E+04	-2.24E+04	2.24E+04
NF	—	—	—	—
NS	-1.37E+04	1.30E+04	-1.28E+04	1.28E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-505. Time history of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

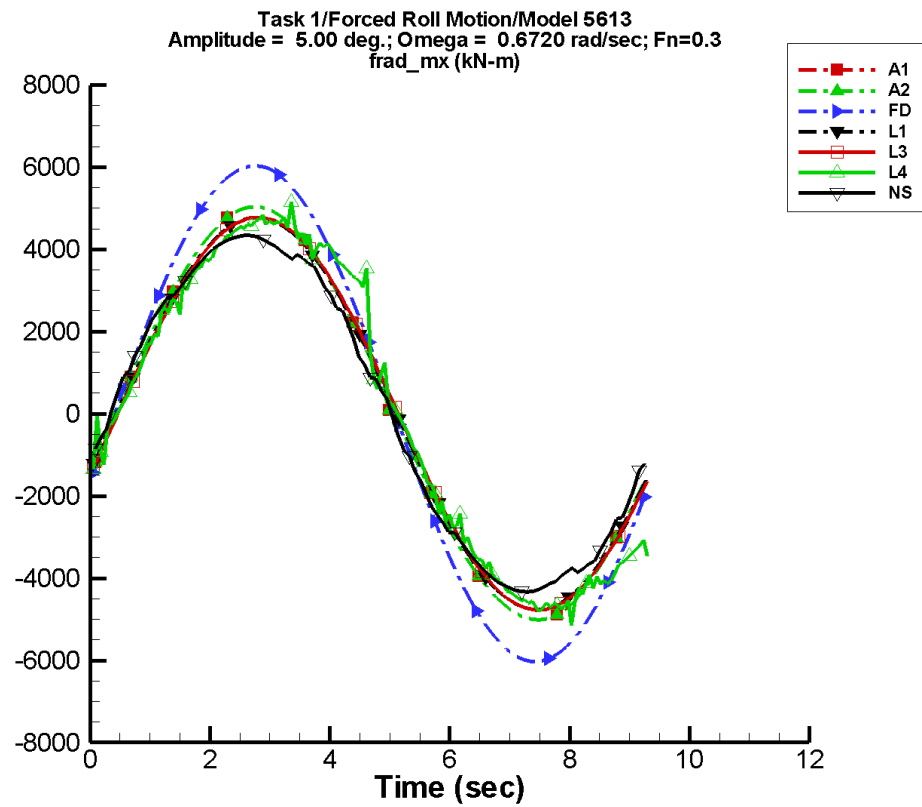
Table C–1009. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-16.6	2.62E+04	-6	86.0	68
A2	-18.5	2.62E+04	-6	109.	-36
FD	8.81E-03	2.35E+04	-3	1.71E-03	-77
L1	0.132	2.09E+04	-6	0.102	101
L3	0.118	2.09E+04	-6	0.146	115
L4	256.	2.57E+04	-25	606.	-154
NF	—	—	—	—	—
NS	5.22	1.96E+04	-28	125.	50

Table C–1010. Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.71E+04	2.63E+04	-2.69E+04	2.58E+04
A2	-2.64E+04	2.71E+04	-2.63E+04	2.69E+04
FD	-2.35E+04	2.35E+04	-2.34E+04	2.34E+04
L1	-2.09E+04	2.09E+04	-2.09E+04	2.09E+04
L3	-2.09E+04	2.09E+04	-2.09E+04	2.09E+04
L4	-4.59E+04	5.38E+04	-3.60E+04	3.63E+04
NF	—	—	—	—
NS	-3.30E+04	3.37E+04	-3.28E+04	3.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-506. Time history of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

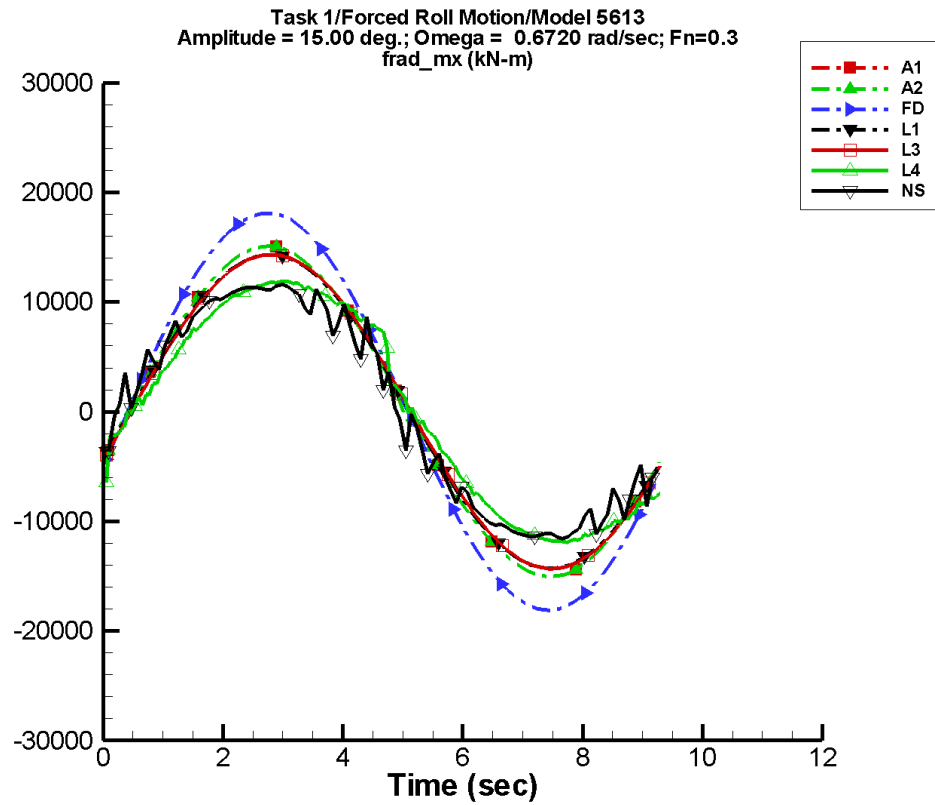
Table C–1011. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.75	4.97E+03	-16	12.4	-85
A2	-3.75	4.97E+03	-16	12.4	-85
FD	-1.03E-02	6.03E+03	-16	1.33E-02	-158
L1	3.00E-02	4.77E+03	-17	7.02E-03	74
L3	4.02E-02	4.77E+03	-18	2.64E-02	-4
L4	12.6	4.85E+03	-21	77.8	59
NF	—	—	—	—	—
NS	-0.664	4.41E+03	-13	1.18	154

Table C–1012. Minimum and maximum of M_x^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.01E+03	5.03E+03	-4.95E+03	4.97E+03
A2	-5.01E+03	5.03E+03	-4.95E+03	4.97E+03
FD	-6.03E+03	6.03E+03	-5.97E+03	5.96E+03
L1	-4.77E+03	4.77E+03	-4.75E+03	4.75E+03
L3	-4.77E+03	4.77E+03	-4.75E+03	4.75E+03
L4	-5.15E+03	5.15E+03	-4.70E+03	4.71E+03
NF	—	—	—	—
NS	-4.33E+03	4.34E+03	-4.28E+03	4.28E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-507. Time history of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

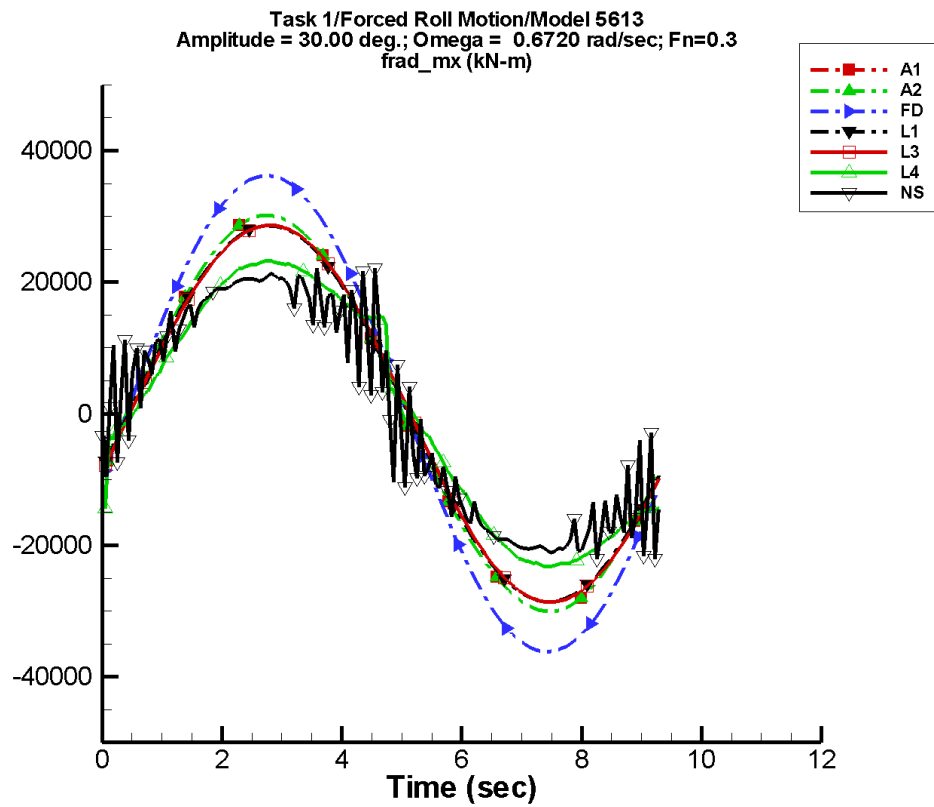
Table C–1013. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-11.3	1.49E+04	-16	37.3	-85
A2	-11.3	1.49E+04	-16	37.3	-85
FD	-3.13E-02	1.81E+04	-16	3.86E-02	-158
L1	3.50E-02	1.43E+04	-17	2.31E-02	96
L3	3.49E-02	1.43E+04	-18	6.56E-02	4
L4	22.8	1.22E+04	-23	147.	49
NF	—	—	—	—	—
NS	0.566	1.19E+04	-13	4.11	132

Table C–1014. Minimum and maximum of M_x^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.50E+04	1.51E+04	-1.49E+04	1.49E+04
A2	-1.50E+04	1.51E+04	-1.49E+04	1.49E+04
FD	-1.81E+04	1.81E+04	-1.79E+04	1.79E+04
L1	-1.43E+04	1.43E+04	-1.42E+04	1.42E+04
L3	-1.43E+04	1.43E+04	-1.43E+04	1.43E+04
L4	-1.19E+04	1.19E+04	-1.18E+04	1.19E+04
NF	—	—	—	—
NS	-1.16E+04	1.16E+04	-1.13E+04	1.13E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-508. Time history of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

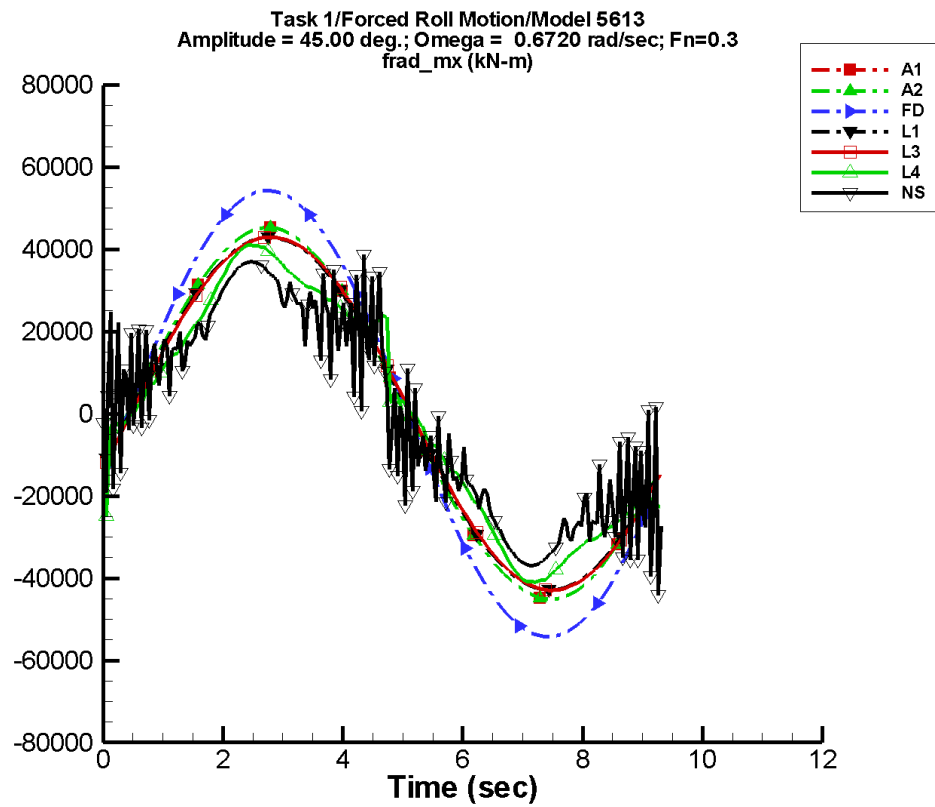
Table C–1015. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-22.5	2.98E+04	-16	74.7	-85
A2	-22.5	2.98E+04	-16	74.7	-85
FD	-6.20E-02	3.62E+04	-16	7.80E-02	-158
L1	6.44E-02	2.86E+04	-17	6.44E-02	93
L3	4.78E-02	2.86E+04	-18	0.124	18
L4	44.1	2.36E+04	-22	136.	35
NF	—	—	—	—	—
NS	7.26	2.17E+04	-14	4.99	148

Table C–1016. Minimum and maximum of M_x^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.01E+04	3.02E+04	-2.97E+04	2.98E+04
A2	-3.01E+04	3.02E+04	-2.97E+04	2.98E+04
FD	-3.62E+04	3.62E+04	-3.58E+04	3.58E+04
L1	-2.86E+04	2.86E+04	-2.85E+04	2.85E+04
L3	-2.86E+04	2.86E+04	-2.85E+04	2.85E+04
L4	-2.32E+04	2.33E+04	-2.30E+04	2.30E+04
NF	—	—	—	—
NS	-2.21E+04	2.21E+04	-2.06E+04	2.06E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-509. Time history of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

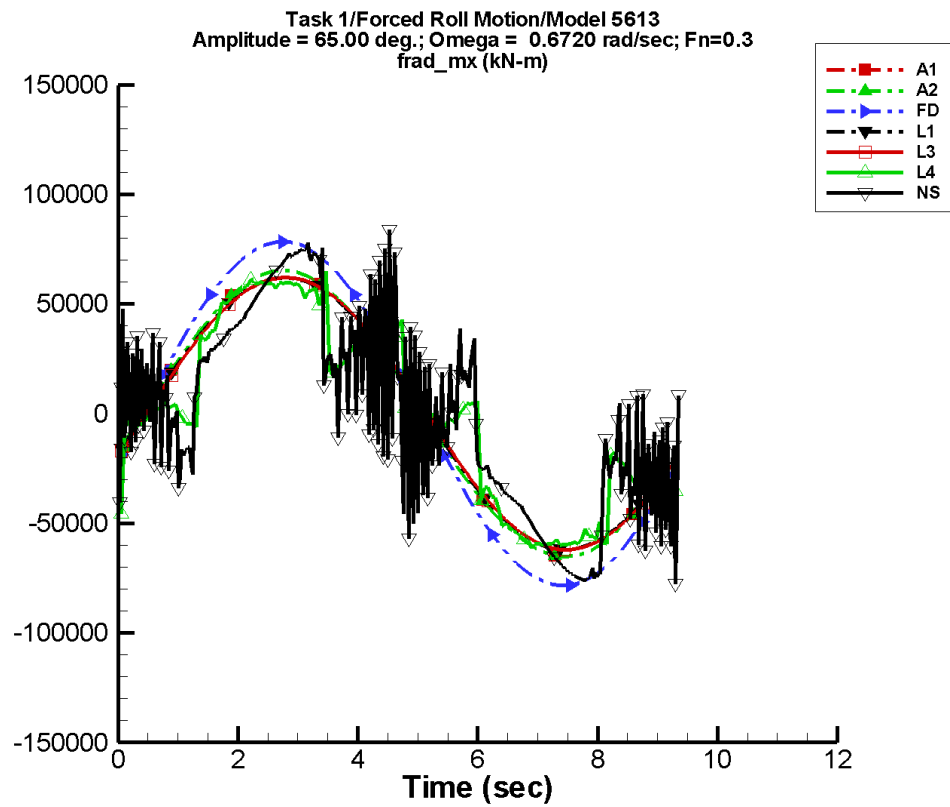
Table C–1017. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-33.8	4.47E+04	-16	112.	-85
A2	-33.8	4.47E+04	-16	112.	-85
FD	-8.94E-02	5.43E+04	-16	0.123	-158
L1	0.115	4.29E+04	-17	0.111	94
L3	8.05E-02	4.30E+04	-18	0.187	23
L4	127.	3.78E+04	-20	298.	-128
NF	—	—	—	—	—
NS	17.2	3.24E+04	-15	20.5	-149

Table C–1018. Minimum and maximum of M_x^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.51E+04	4.53E+04	-4.46E+04	4.47E+04
A2	-4.51E+04	4.53E+04	-4.46E+04	4.47E+04
FD	-5.43E+04	5.43E+04	-5.38E+04	5.37E+04
L1	-4.29E+04	4.29E+04	-4.27E+04	4.27E+04
L3	-4.30E+04	4.30E+04	-4.28E+04	4.28E+04
L4	-4.09E+04	4.10E+04	-4.06E+04	4.06E+04
NF	—	—	—	—
NS	-4.42E+04	3.86E+04	-3.66E+04	3.67E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-510. Time history of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

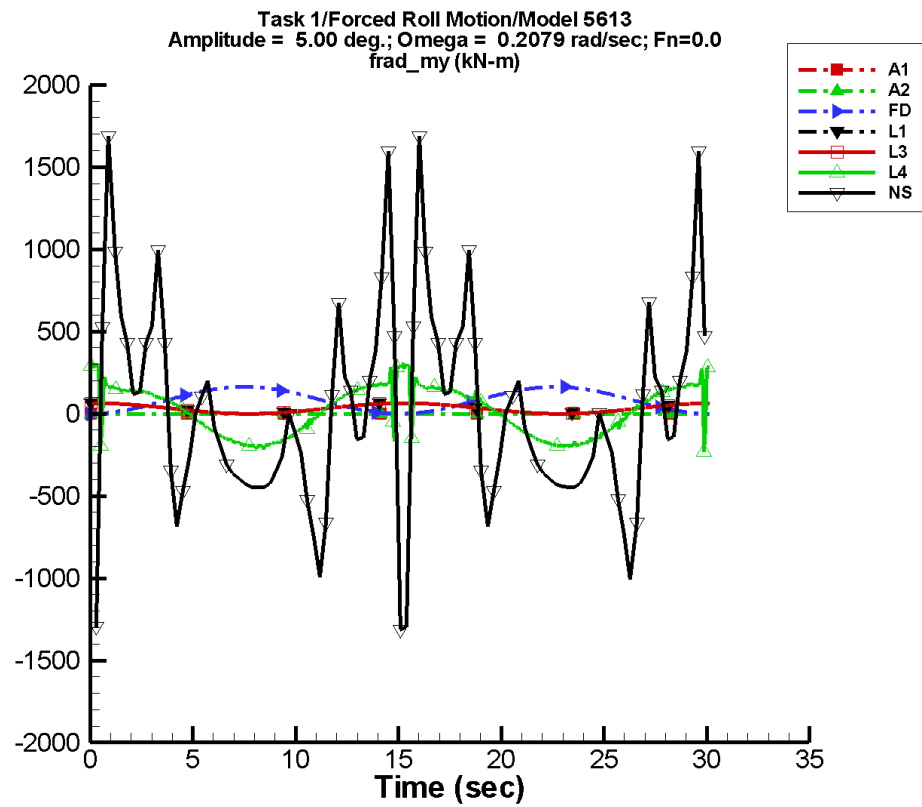
Table C–1019. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-48.8	6.46E+04	-16	162.	-85
A2	-48.8	6.46E+04	-16	162.	-85
FD	-0.131	7.84E+04	-16	0.172	-158
L1	0.224	6.19E+04	-17	0.238	95
L3	0.151	6.21E+04	-18	0.303	37
L4	236.	5.50E+04	-22	1.83E+03	-129
NF	—	—	—	—	—
NS	-18.1	5.19E+04	-22	227.	50

Table C–1020. Minimum and maximum of M_x^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.52E+04	6.54E+04	-6.44E+04	6.46E+04
A2	-6.52E+04	6.54E+04	-6.44E+04	6.46E+04
FD	-7.84E+04	7.84E+04	-7.76E+04	7.75E+04
L1	-6.19E+04	6.20E+04	-6.17E+04	6.17E+04
L3	-6.21E+04	6.21E+04	-6.18E+04	6.18E+04
L4	-6.14E+04	6.49E+04	-5.98E+04	5.98E+04
NF	—	—	—	—
NS	-7.75E+04	8.41E+04	-7.57E+04	7.45E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-511. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

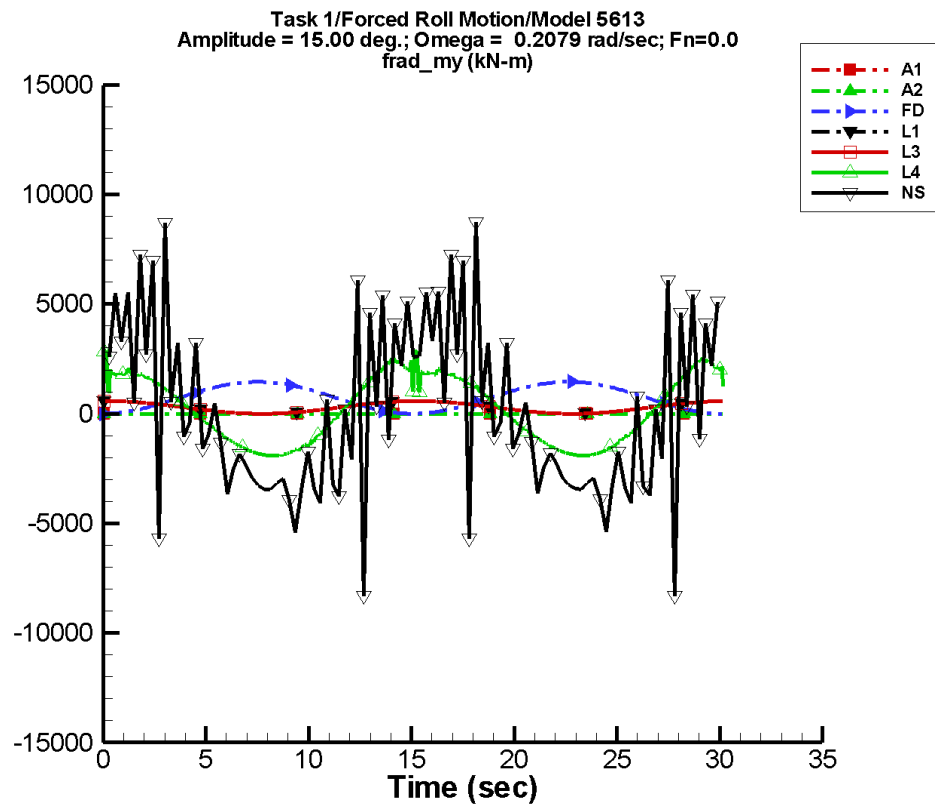
Table C–1021. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.26E-05	7.21E-03	175	1.74E-05	-44
A2	-1.26E-05	7.21E-03	175	1.74E-05	-44
FD	81.7	5.90E-04	8	81.7	-89
L1	32.1	4.15E-03	-2	32.2	86
L3	32.1	4.10E-03	-3	32.2	86
L4	19.9	4.60	-91	192.	81
NF	—	—	—	—	—
NS	-6.89	0.681	-23	433.	65

Table C–1022. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.51E-03	7.47E-03	-7.43E-03	7.39E-03
A2	-7.51E-03	7.47E-03	-7.43E-03	7.39E-03
FD	4.84E-03	163.	-0.157	163.
L1	-6.67E-02	64.4	-1.17E-02	64.3
L3	-6.58E-02	64.4	-1.15E-02	64.3
L4	-232.	311.	-199.	299.
NF	—	—	—	—
NS	-1.32E+03	1.69E+03	-636.	591.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-512. Time history of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

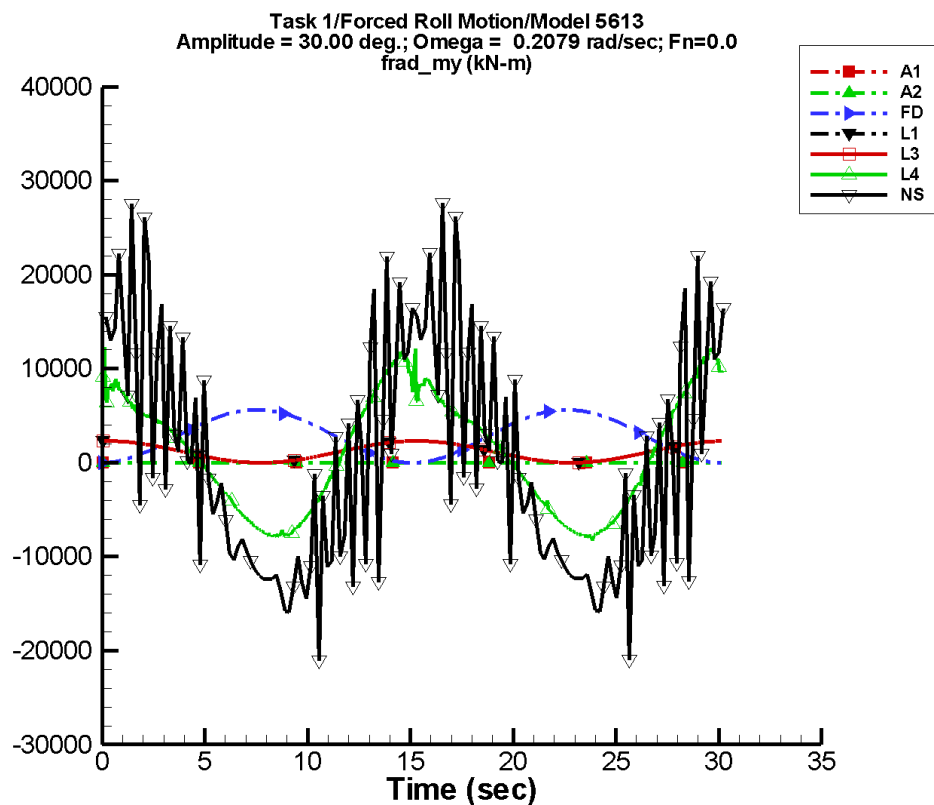
Table C–1023. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.77E-05	2.16E-02	175	5.22E-05	-44
A2	-3.77E-05	2.16E-02	175	5.22E-05	-44
FD	730.	4.71E-02	8	728.	-89
L1	289.	1.16E-02	-6	290.	86
L3	289.	1.14E-02	-5	290.	86
L4	192.	23.0	-122	2.05E+03	81
NF	—	—	—	—	—
NS	15.1	6.67	-14	3.83E+03	65

Table C–1024. Minimum and maximum of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.25E-02	2.24E-02	-2.23E-02	2.21E-02
A2	-2.25E-02	2.24E-02	-2.23E-02	2.21E-02
FD	4.35E-02	1.46E+03	-1.38	1.45E+03
L1	-0.539	579.	-7.83E-02	579.
L3	-0.540	579.	-7.71E-02	579.
L4	-1.95E+03	2.92E+03	-1.91E+03	2.46E+03
NF	—	—	—	—
NS	-8.36E+03	8.72E+03	-3.52E+03	3.91E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-513. Time history of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

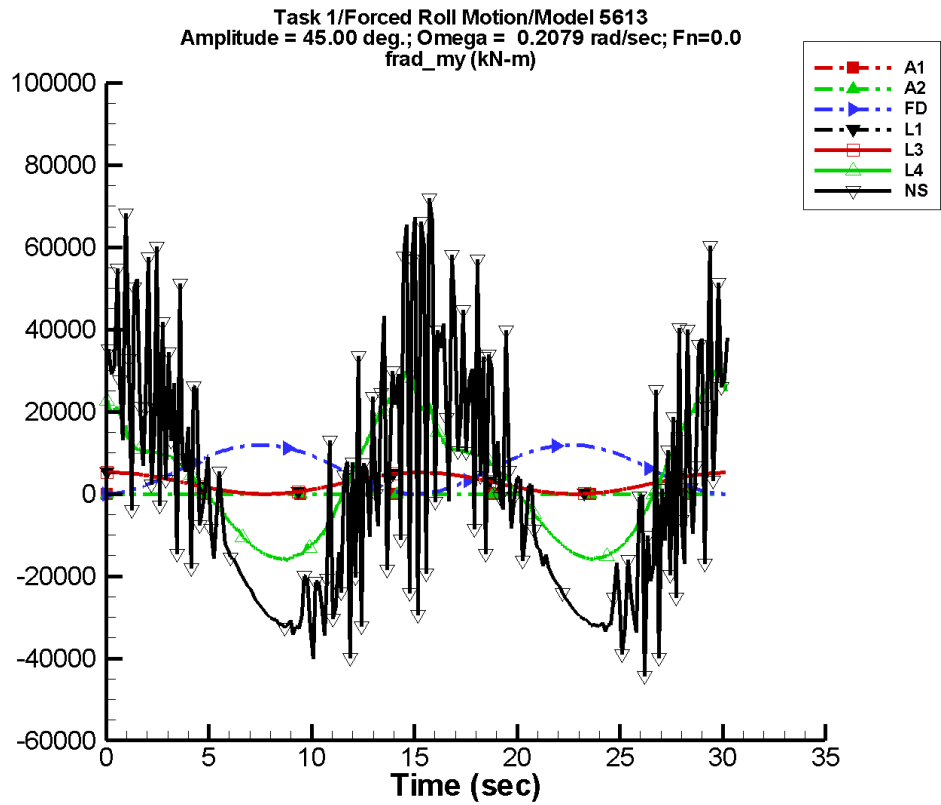
Table C–1025. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-7.54E-05	4.33E-02	175	1.04E-04	-44
A2	-7.54E-05	4.33E-02	175	1.04E-04	-44
FD	2.85E+03	0.749	8	2.81E+03	-89
L1	1.16E+03	2.29E-02	-4	1.16E+03	86
L3	1.16E+03	2.30E-02	-5	1.16E+03	86
L4	1.00E+03	158.	-112	8.13E+03	81
NF	—	—	—	—	—
NS	183.	28.8	-14	1.42E+04	65

Table C–1026. Minimum and maximum of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.50E-02	4.48E-02	-4.45E-02	4.43E-02
A2	-4.50E-02	4.48E-02	-4.45E-02	4.43E-02
FD	0.174	5.62E+03	-4.98	5.61E+03
L1	-2.12	2.32E+03	-0.289	2.32E+03
L3	-2.11	2.32E+03	-0.288	2.32E+03
L4	-8.30E+03	1.23E+04	-7.84E+03	1.16E+04
NF	—	—	—	—
NS	-2.11E+04	2.76E+04	-1.35E+04	1.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-514. Time history of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

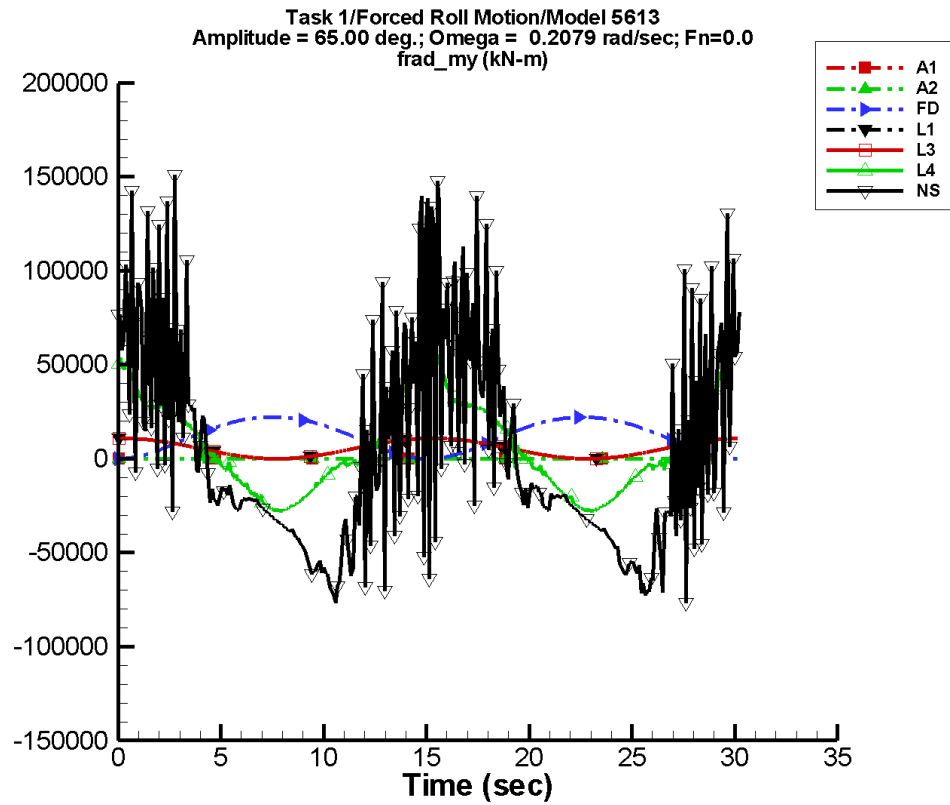
Table C–1027. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.13E-04	6.49E-02	175	1.57E-04	-44
A2	-1.13E-04	6.49E-02	175	1.57E-04	-44
FD	6.13E+03	3.68	8	5.97E+03	-89
L1	2.60E+03	3.83E-02	-6	2.61E+03	86
L3	2.60E+03	3.77E-02	-7	2.61E+03	86
L4	2.90E+03	470.	-113	1.80E+04	81
NF	—	—	—	—	—
NS	283.	74.4	-25	3.22E+04	64

Table C–1028. Minimum and maximum of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.75E-02	6.72E-02	-6.68E-02	6.64E-02
A2	-6.75E-02	6.72E-02	-6.68E-02	6.64E-02
FD	0.392	1.19E+04	-9.30	1.19E+04
L1	-4.73	5.21E+03	-0.628	5.21E+03
L3	-4.74	5.21E+03	-0.629	5.21E+03
L4	-1.60E+04	3.13E+04	-1.58E+04	2.98E+04
NF	—	—	—	—
NS	-4.48E+04	7.18E+04	-3.22E+04	3.64E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-515. Time history of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

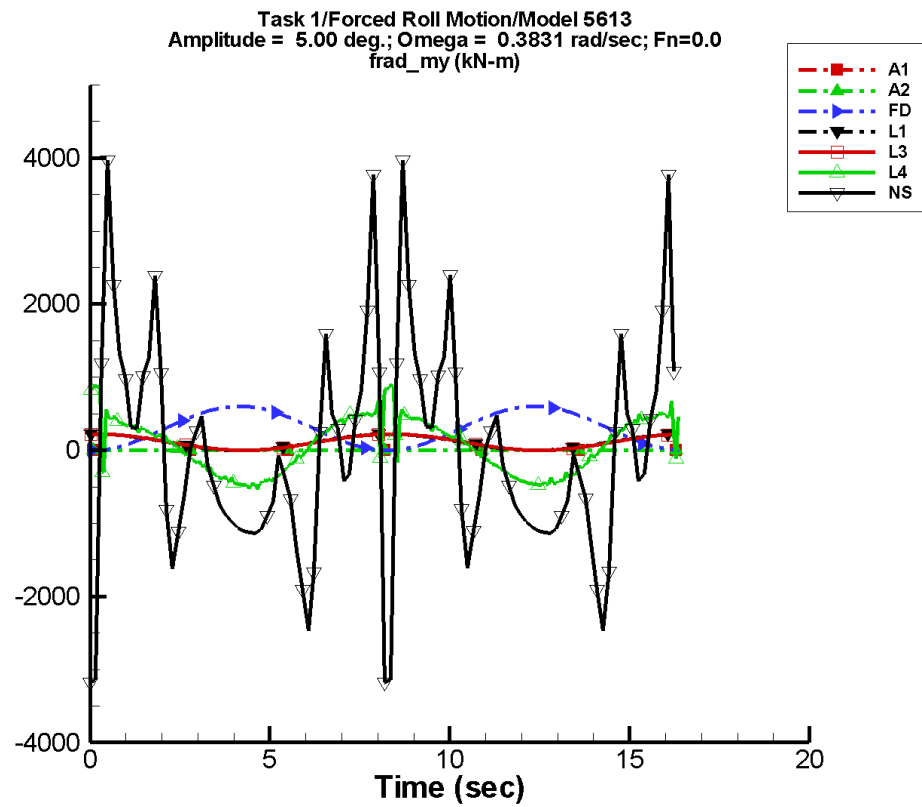
Table C–1029. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.63E-04	9.37E-02	175	2.26E-04	-44
A2	-1.63E-04	9.37E-02	175	2.26E-04	-44
FD	1.17E+04	15.2	8	1.10E+04	-89
L1	5.43E+03	5.19E-02	-5	5.44E+03	86
L3	5.43E+03	5.31E-02	-4	5.44E+03	86
L4	7.21E+03	371.	170	3.30E+04	79
NF	—	—	—	—	—
NS	1.82E+03	22.5	-113	5.92E+04	61

Table C–1030. Minimum and maximum of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.75E-02	9.71E-02	-9.65E-02	9.60E-02
A2	-9.75E-02	9.71E-02	-9.65E-02	9.60E-02
FD	0.818	2.21E+04	-12.0	2.21E+04
L1	-9.87	1.09E+04	-1.30	1.09E+04
L3	-9.87	1.09E+04	-1.30	1.09E+04
L4	-2.77E+04	6.64E+04	-2.75E+04	6.29E+04
NF	—	—	—	—
NS	-7.82E+04	1.51E+05	-6.61E+04	7.35E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-516. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, $F_n = 0.0$ in the case of prescribed roll motion of Model 5613 scaled to $L = 154$ m.

TASK 1/ROLL MOTION/MODEL 5613

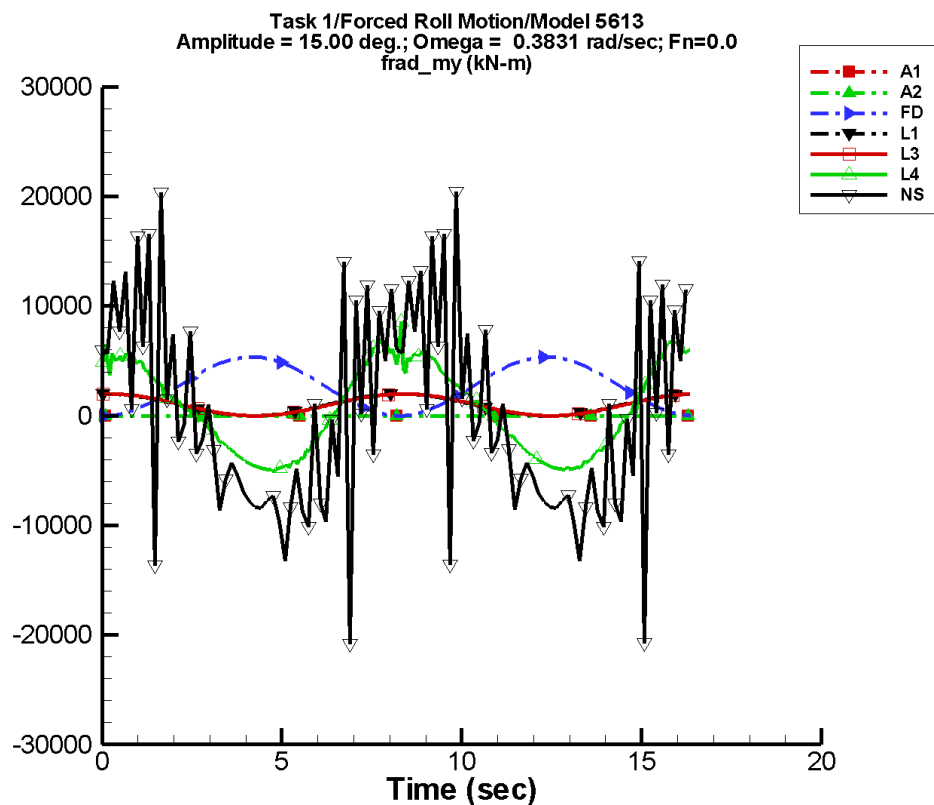
Table C–1031. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.14E-05	2.36E-02	154	6.74E-05	42
A2	-4.14E-05	2.36E-02	154	6.74E-05	42
FD	300.	4.59E-03	-62	300.	-93
L1	110.	1.38E-02	3	111.	86
L3	110.	1.35E-02	4	111.	82
L4	63.8	8.01	-92	484.	85
NF	—	—	—	—	—
NS	-51.2	1.34	-146	1.05E+03	63

Table C–1032. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.36E-02	2.52E-02	-2.29E-02	2.49E-02
A2	-2.36E-02	2.52E-02	-2.29E-02	2.49E-02
FD	-0.304	600.	1.15	596.
L1	-0.738	221.	-0.157	221.
L3	-0.852	221.	-0.243	221.
L4	-536.	888.	-482.	793.
NF	—	—	—	—
NS	-3.18E+03	3.97E+03	-1.57E+03	1.38E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-517. Time history of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

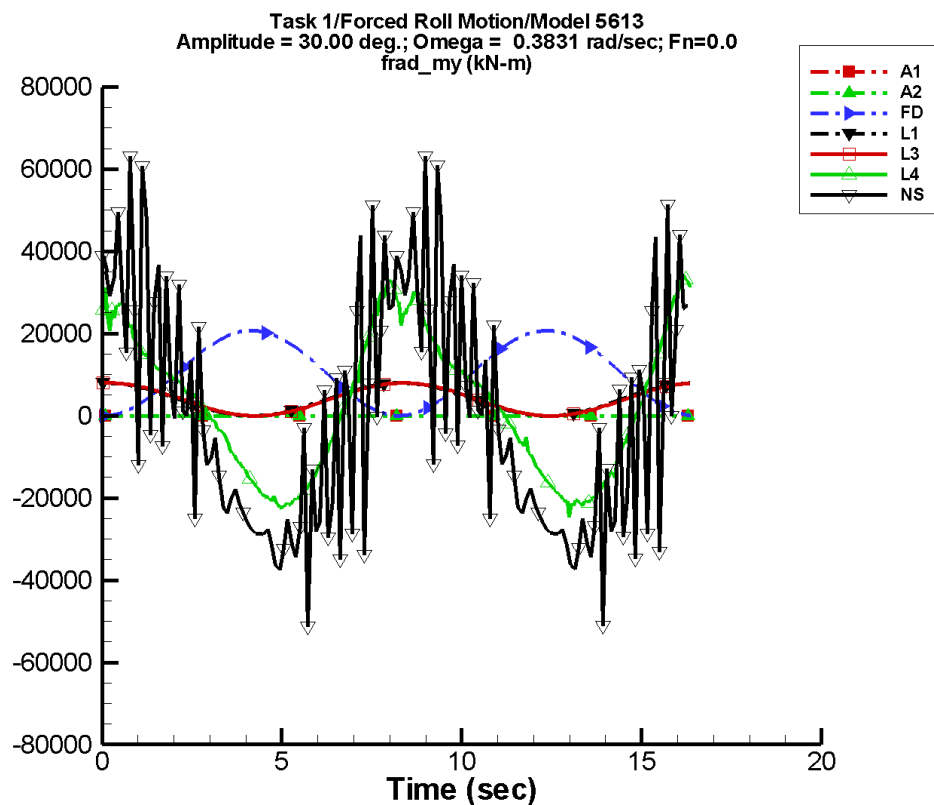
Table C–1033. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.24E-04	7.08E-02	154	2.02E-04	42
A2	-1.24E-04	7.08E-02	154	2.02E-04	42
FD	2.68E+03	0.367	-61	2.68E+03	-93
L1	991.	4.00E-02	19	998.	86
L3	991.	4.00E-02	19	999.	82
L4	571.	81.5	-133	5.34E+03	76
NF	—	—	—	—	—
NS	-222.	12.3	-145	9.08E+03	62

Table C–1034. Minimum and maximum of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.09E-02	7.55E-02	-6.86E-02	7.48E-02
A2	-7.09E-02	7.55E-02	-6.86E-02	7.48E-02
FD	-2.73	5.35E+03	10.4	5.31E+03
L1	-6.69	1.99E+03	-1.34	1.99E+03
L3	-7.62	1.99E+03	-2.23	1.99E+03
L4	-5.14E+03	8.57E+03	-4.90E+03	6.53E+03
NF	—	—	—	—
NS	-2.08E+04	2.05E+04	-8.64E+03	8.91E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-518. Time history of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

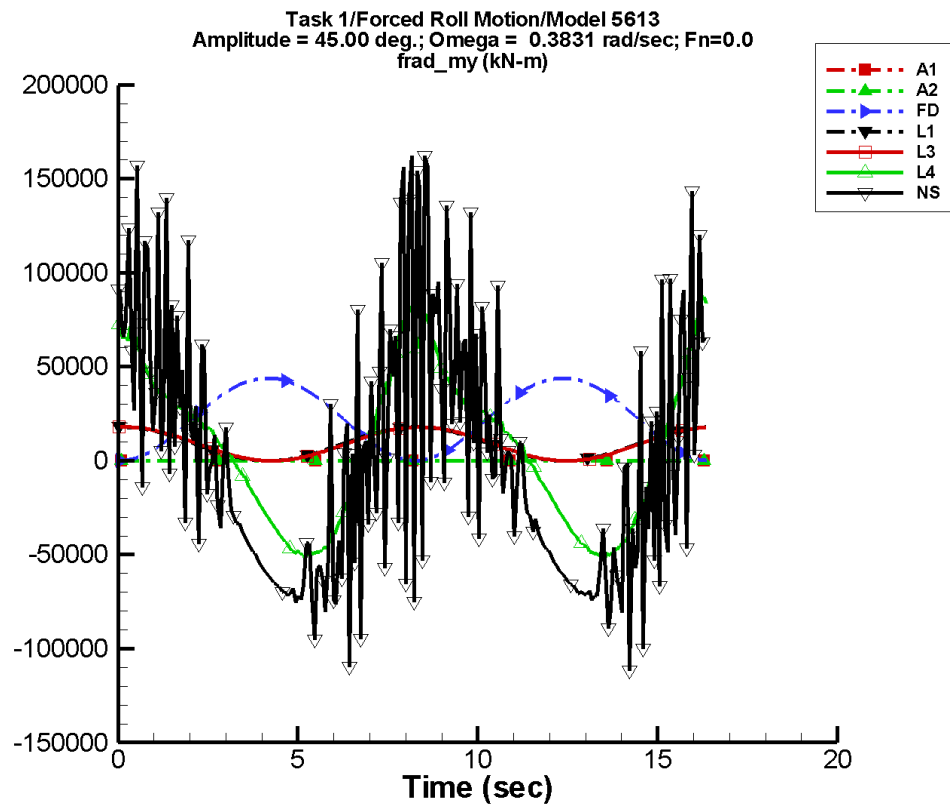
Table C–1035. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.48E-04	0.142	154	4.04E-04	42
A2	-2.48E-04	0.142	154	4.04E-04	42
FD	1.04E+04	5.76	-62	1.03E+04	-93
L1	3.96E+03	9.78E-02	44	3.99E+03	86
L3	3.96E+03	9.09E-02	40	3.99E+03	82
L4	2.67E+03	477.	-128	2.22E+04	66
NF	—	—	—	—	—
NS	-372.	45.9	-146	3.27E+04	62

Table C–1036. Minimum and maximum of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.142	0.151	-0.137	0.150
A2	-0.142	0.151	-0.137	0.150
FD	-10.9	2.07E+04	42.0	2.05E+04
L1	-26.7	7.96E+03	-5.27	7.96E+03
L3	-30.4	7.96E+03	-8.99	7.96E+03
L4	-2.46E+04	3.42E+04	-2.17E+04	3.21E+04
NF	—	—	—	—
NS	-5.13E+04	6.33E+04	-3.17E+04	3.71E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-519. Time history of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

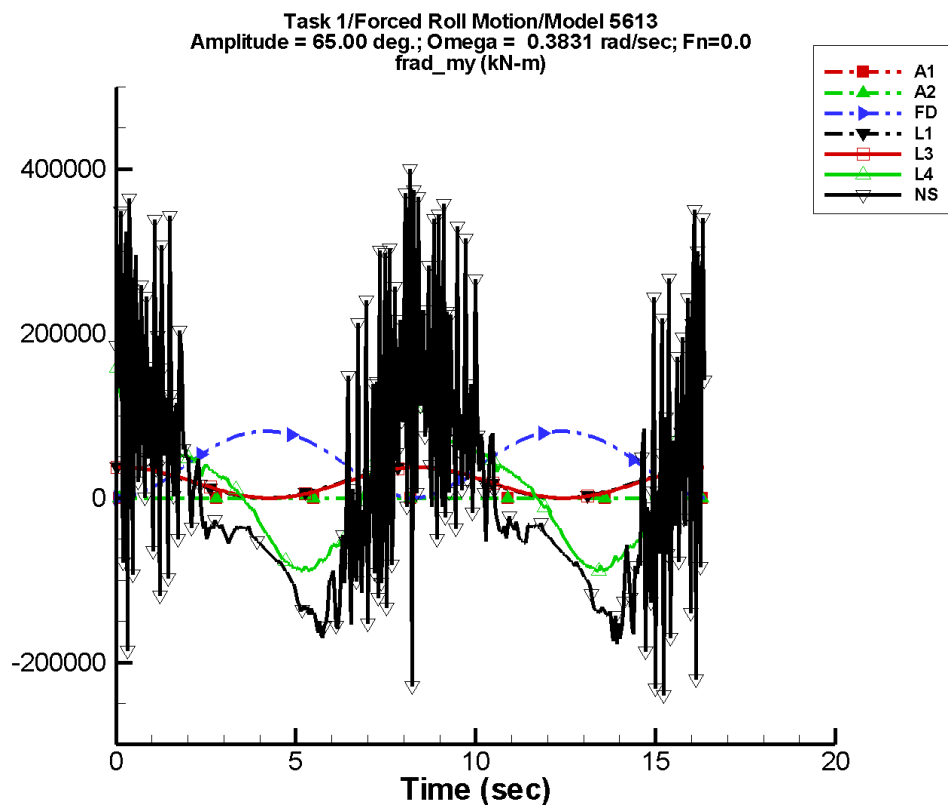
Table C–1037. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.73E-04	0.212	154	6.07E-04	42
A2	-3.73E-04	0.212	154	6.07E-04	42
FD	2.25E+04	28.3	-62	2.19E+04	-93
L1	8.92E+03	0.185	56	8.98E+03	86
L3	8.92E+03	0.185	55	8.99E+03	82
L4	7.26E+03	1.21E+03	-144	5.14E+04	60
NF	—	—	—	—	—
NS	-698.	131.	-145	7.17E+04	61

Table C–1038. Minimum and maximum of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.213	0.227	-0.206	0.224
A2	-0.213	0.227	-0.206	0.224
FD	-24.6	4.38E+04	96.4	4.35E+04
L1	-59.9	1.79E+04	-11.8	1.79E+04
L3	-68.4	1.79E+04	-20.3	1.79E+04
L4	-5.21E+04	8.71E+04	-5.01E+04	7.80E+04
NF	—	—	—	—
NS	-1.12E+05	1.63E+05	-7.00E+04	8.59E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-520. Time history of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

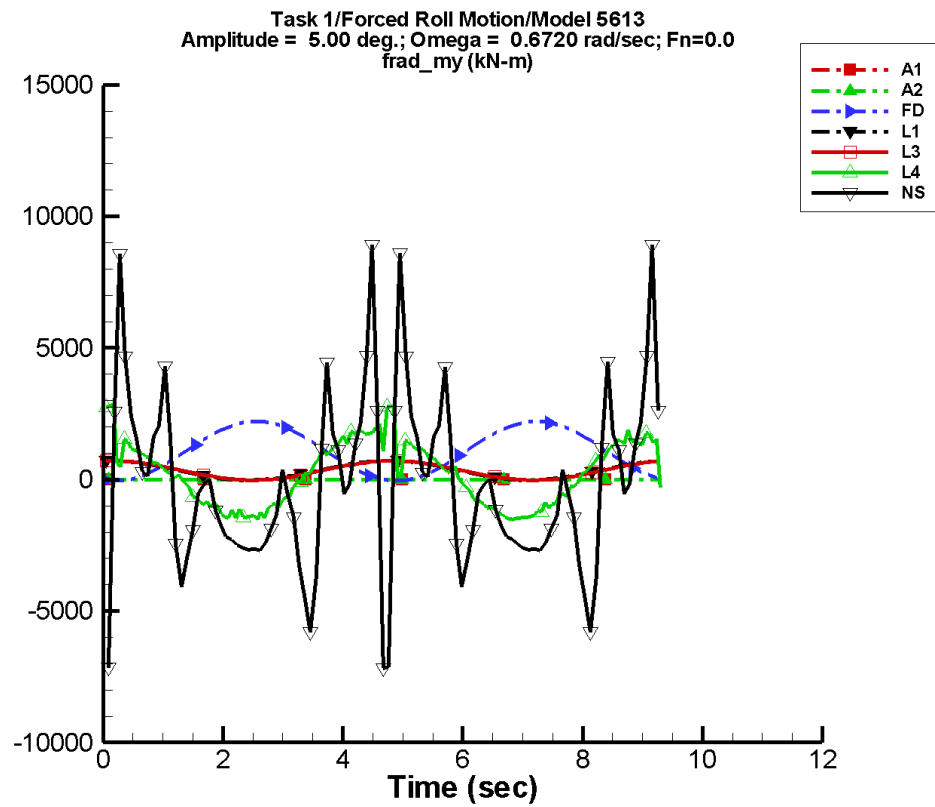
Table C–1039. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-5.38E-04	0.307	154	8.76E-04	42
A2	-1.28E-04	0.297	154	2.94E-03	-87
FD	4.30E+04	117.	-62	4.04E+04	-93
L1	1.86E+04	0.327	69	1.87E+04	86
L3	1.86E+04	0.346	68	1.88E+04	82
L4	1.70E+04	2.31E+03	-145	8.88E+04	55
NF	—	—	—	—	—
NS	2.34E+03	130.	-94	1.28E+05	58

Table C–1040. Minimum and maximum of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.307	0.327	-0.297	0.324
A2	-0.331	0.300	-0.325	0.299
FD	-51.3	8.12E+04	209.	8.07E+04
L1	-125.	3.73E+04	-24.5	3.74E+04
L3	-143.	3.74E+04	-42.5	3.74E+04
L4	-8.92E+04	1.73E+05	-8.78E+04	1.47E+05
NF	—	—	—	—
NS	-2.40E+05	4.01E+05	-1.55E+05	2.37E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-521. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

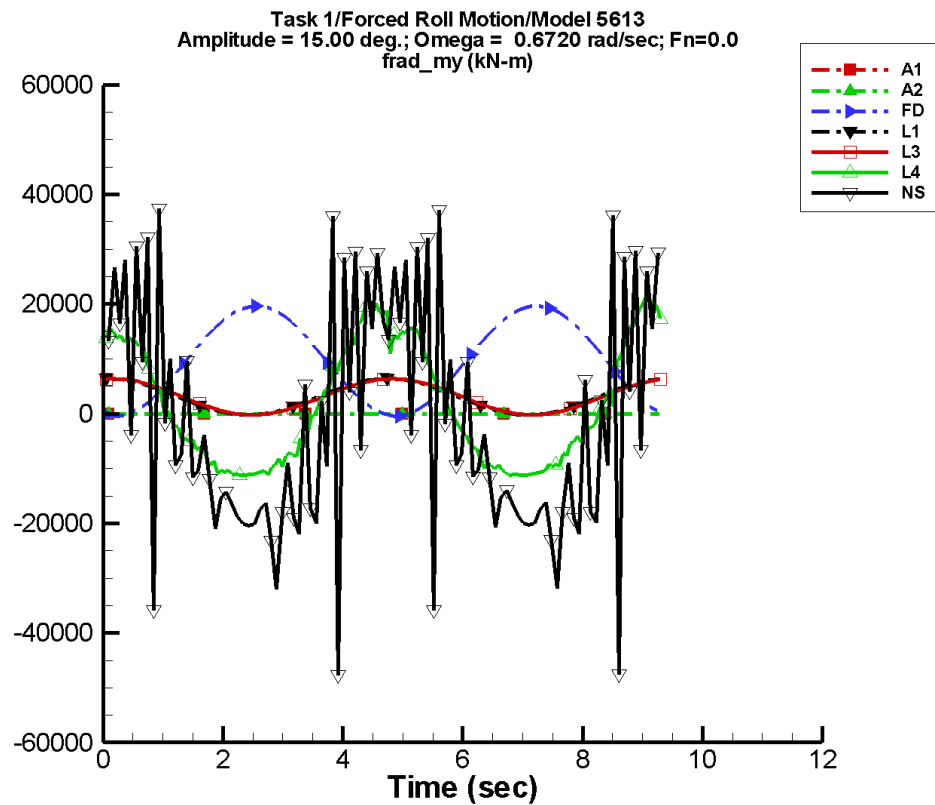
Table C–1041. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.72E-04	4.81E-02	170	5.10E-04	-14
A2	-3.72E-04	4.81E-02	170	5.10E-04	-14
FD	1.08E+03	2.60E-02	-55	1.13E+03	-107
L1	341.	4.49E-02	-9	368.	84
L3	341.	4.45E-02	-12	366.	78
L4	229.	17.6	-132	1.60E+03	97
NF	—	—	—	—	—
NS	-279.	3.03	160	2.32E+03	78

Table C–1042. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.77E-02	4.61E-02	-4.63E-02	4.55E-02
A2	-4.77E-02	4.61E-02	-4.63E-02	4.55E-02
FD	-47.4	2.21E+03	-40.8	2.20E+03
L1	-26.9	708.	-21.0	709.
L3	-25.5	707.	-19.8	708.
L4	-1.52E+03	2.82E+03	-1.45E+03	2.39E+03
NF	—	—	—	—
NS	-7.20E+03	8.93E+03	-3.65E+03	3.40E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-522. Time history of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

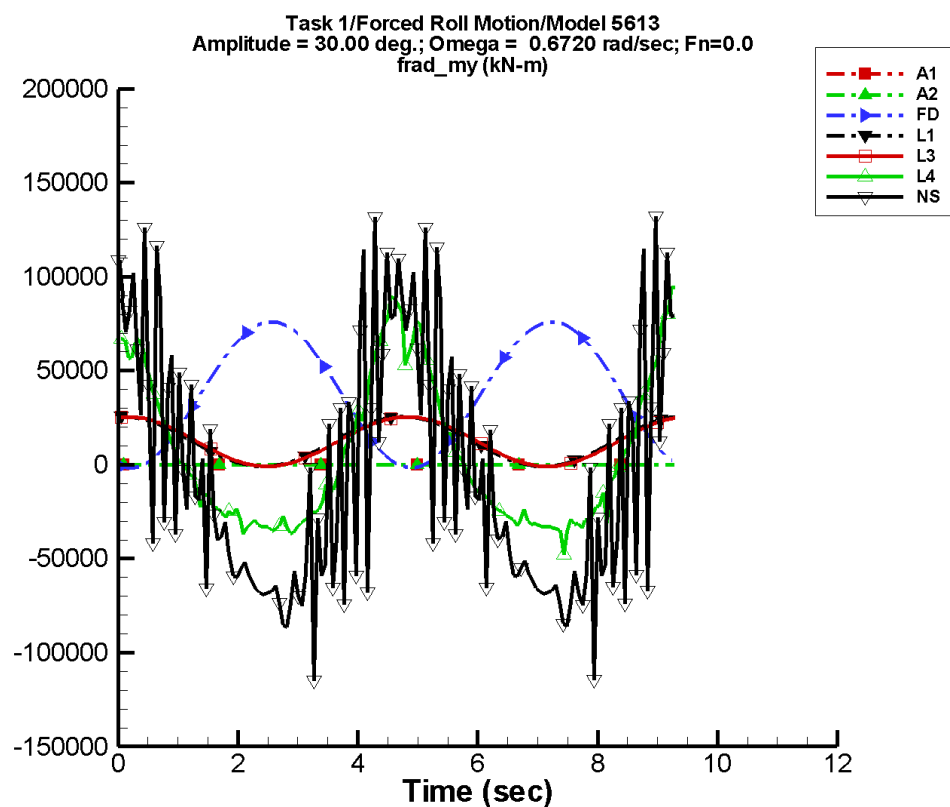
Table C–1043. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.12E-03	0.144	170	1.53E-03	-14
A2	-1.12E-03	0.144	170	1.53E-03	-14
FD	9.64E+03	2.12	-45	1.00E+04	-107
L1	3.07E+03	0.131	0	3.31E+03	84
L3	3.07E+03	0.132	-5	3.30E+03	78
L4	1.54E+03	174.	-108	1.46E+04	91
NF	—	—	—	—	—
NS	-1.78E+03	36.8	160	2.03E+04	75

Table C–1044. Minimum and maximum of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.143	0.138	-0.139	0.136
A2	-0.143	0.138	-0.139	0.136
FD	-426.	1.96E+04	-366.	1.96E+04
L1	-241.	6.37E+03	-189.	6.38E+03
L3	-229.	6.36E+03	-179.	6.37E+03
L4	-1.14E+04	2.14E+04	-1.11E+04	1.94E+04
NF	—	—	—	—
NS	-4.76E+04	3.74E+04	-2.02E+04	2.36E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-523. Time history of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

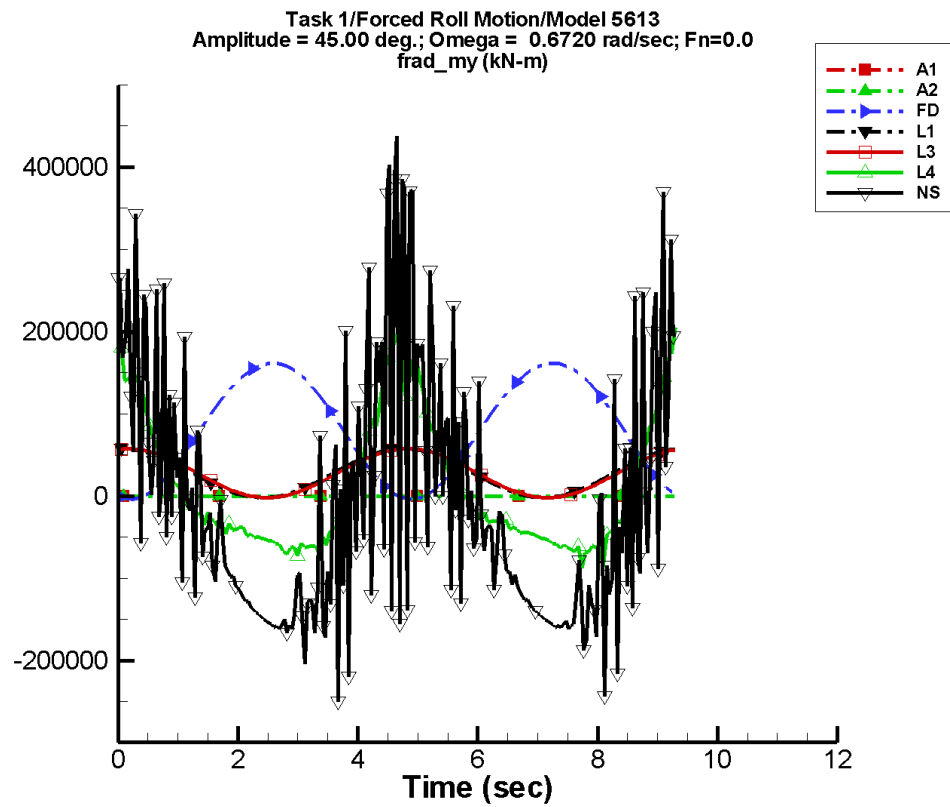
Table C–1045. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.23E-03	0.288	170	3.06E-03	-14
A2	-2.23E-03	0.288	170	3.06E-03	-14
FD	3.76E+04	33.4	-44	3.88E+04	-107
L1	1.23E+04	0.272	10	1.32E+04	84
L3	1.23E+04	0.271	6	1.32E+04	78
L4	5.86E+03	1.04E+03	-71	5.09E+04	86
NF	—	—	—	—	—
NS	-5.03E+03	123.	161	7.40E+04	75

Table C–1046. Minimum and maximum of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.286	0.277	-0.278	0.273
A2	-0.286	0.277	-0.278	0.273
FD	-1.70E+03	7.60E+04	-1.45E+03	7.59E+04
L1	-966.	2.55E+04	-757.	2.55E+04
L3	-918.	2.54E+04	-716.	2.55E+04
L4	-4.77E+04	9.44E+04	-3.55E+04	7.84E+04
NF	—	—	—	—
NS	-1.15E+05	1.32E+05	-7.32E+04	9.73E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-524. Time history of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

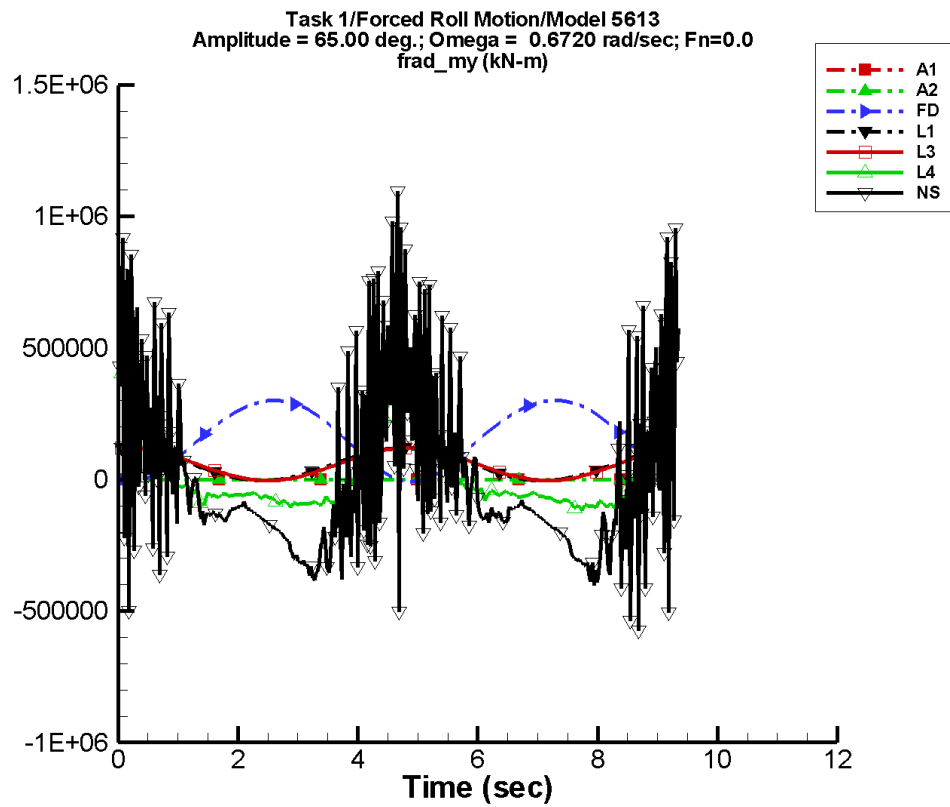
Table C–1047. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.35E-03	0.433	170	4.59E-03	-14
A2	-3.35E-03	0.433	170	4.59E-03	-14
FD	8.08E+04	165.	-44	8.25E+04	-107
L1	2.76E+04	0.446	18	2.98E+04	84
L3	2.76E+04	0.404	1	2.97E+04	78
L4	1.29E+04	2.10E+03	-68	9.66E+04	80
NF	—	—	—	—	—
NS	-1.02E+04	307.	-179	1.60E+05	73

Table C–1048. Minimum and maximum of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.429	0.415	-0.417	0.409
A2	-0.429	0.415	-0.417	0.409
FD	-3.83E+03	1.61E+05	-3.20E+03	1.61E+05
L1	-2.17E+03	5.74E+04	-1.70E+03	5.74E+04
L3	-2.07E+03	5.73E+04	-1.61E+03	5.73E+04
L4	-8.76E+04	2.17E+05	-6.81E+04	1.70E+05
NF	—	—	—	—
NS	-2.50E+05	4.39E+05	-1.58E+05	2.35E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-525. Time history of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

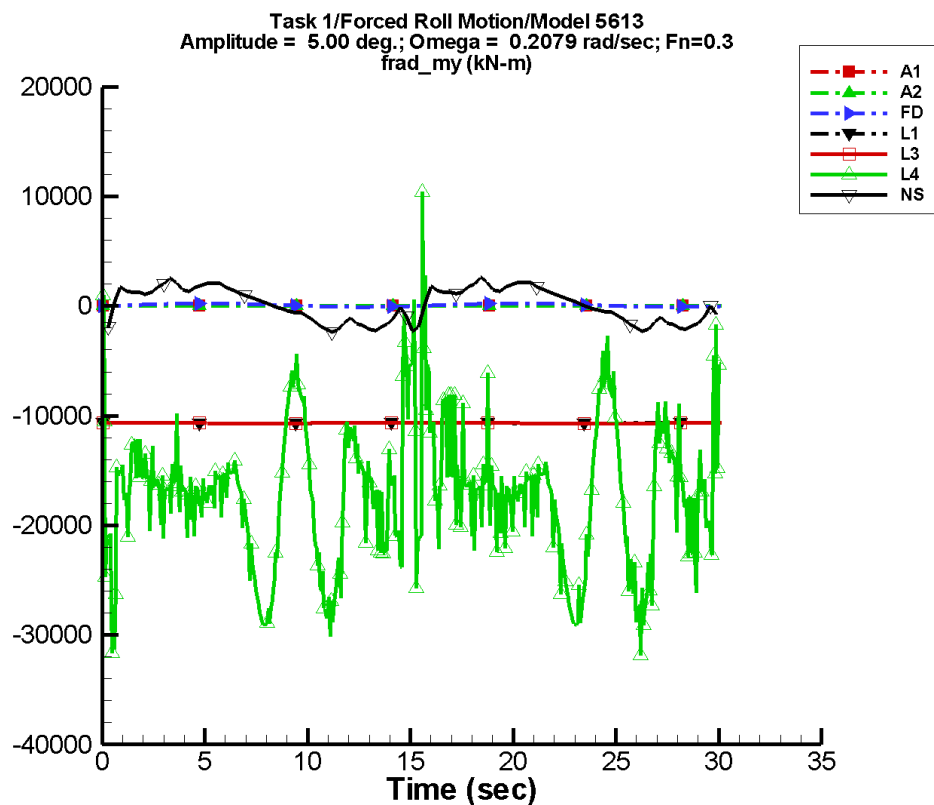
Table C–1049. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.83E-03	0.625	170	6.63E-03	-14
A2	-4.83E-03	0.625	170	6.63E-03	-14
FD	1.54E+05	681.	-44	1.54E+05	-108
L1	5.76E+04	0.629	25	6.21E+04	84
L3	5.76E+04	0.619	16	6.19E+04	78
L4	2.90E+04	4.80E+03	-75	1.63E+05	85
NF	—	—	—	—	—
NS	-9.75E+03	228.	150	2.78E+05	68

Table C–1050. Minimum and maximum of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.620	0.600	-0.602	0.591
A2	-0.620	0.600	-0.602	0.591
FD	-7.96E+03	3.00E+05	-6.42E+03	2.99E+05
L1	-4.54E+03	1.20E+05	-3.56E+03	1.20E+05
L3	-4.31E+03	1.19E+05	-3.36E+03	1.20E+05
L4	-1.17E+05	4.45E+05	-9.93E+04	3.57E+05
NF	—	—	—	—
NS	-5.74E+05	1.10E+06	-3.52E+05	5.12E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-526. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

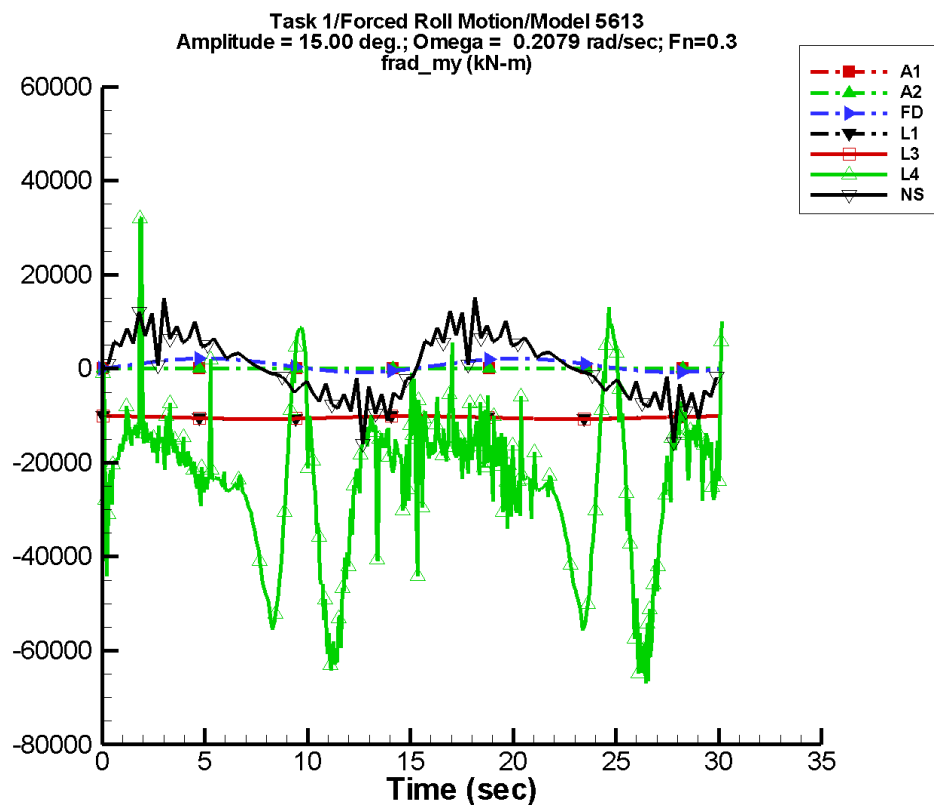
Table C–1051. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.30E-05	0.360	102	1.98E-04	48
A2	-6.30E-05	0.360	102	1.98E-04	48
FD	82.8	3.64E-03	128	163.	-31
L1	-1.07E+04	0.121	-62	33.5	88
L3	-1.07E+04	10.5	-76	34.3	76
L4	-1.72E+04	758.	-100	2.12E+03	65
NF	—	—	—	—	—
NS	149.	14.9	-127	2.04E+03	-17

Table C–1052. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.358	0.360	-0.358	0.359
A2	-0.358	0.360	-0.358	0.359
FD	-79.8	245.	-79.1	245.
L1	-1.07E+04	-1.06E+04	-1.07E+04	-1.06E+04
L3	-1.07E+04	-1.06E+04	-1.07E+04	-1.06E+04
L4	-3.22E+04	1.04E+04	-2.93E+04	-5.26E+03
NF	—	—	—	—
NS	-2.36E+03	2.73E+03	-1.83E+03	2.01E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-527. Time history of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

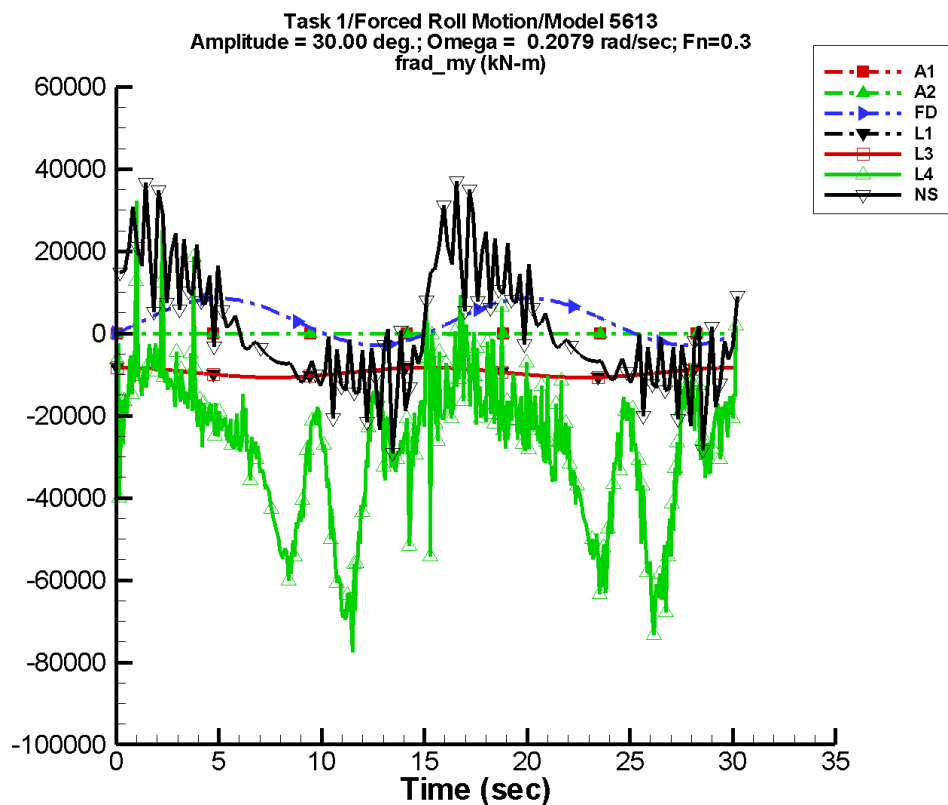
Table C–1053. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.89E-04	1.08	102	5.95E-04	48
A2	-1.89E-04	1.08	102	5.95E-04	48
FD	739.	0.290	128	1.45E+03	-30
L1	-1.04E+04	0.135	67	302.	88
L3	-1.04E+04	10.3	-75	302.	87
L4	-2.40E+04	714.	102	9.09E+03	46
NF	—	—	—	—	—
NS	622.	62.8	-120	8.04E+03	-3

Table C–1054. Minimum and maximum of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.07	1.08	-1.07	1.08
A2	-1.07	1.08	-1.07	1.08
FD	-716.	2.19E+03	-710.	2.18E+03
L1	-1.07E+04	-1.01E+04	-1.07E+04	-1.01E+04
L3	-1.07E+04	-1.01E+04	-1.07E+04	-1.01E+04
L4	-6.69E+04	3.23E+04	-6.11E+04	7.74E+03
NF	—	—	—	—
NS	-1.60E+04	1.57E+04	-7.91E+03	9.14E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-528. Time history of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

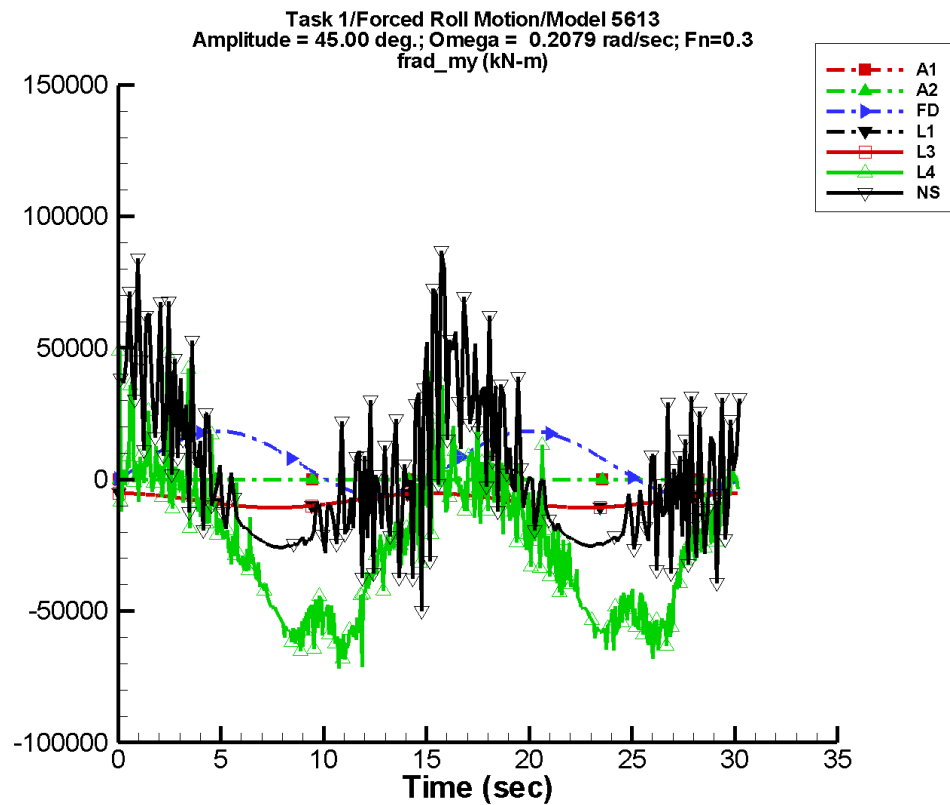
Table C–1055. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.78E-04	2.16	102	1.19E-03	48
A2	-3.78E-04	2.16	102	1.19E-03	48
FD	2.88E+03	4.60	128	5.69E+03	-30
L1	-9.49E+03	0.489	86	1.21E+03	88
L3	-9.49E+03	9.99	-75	1.21E+03	88
L4	-2.72E+04	1.52E+03	95	1.81E+04	40
NF	—	—	—	—	—
NS	1.33E+03	118.	-112	1.57E+04	23

Table C–1056. Minimum and maximum of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.15	2.16	-2.15	2.15
A2	-2.15	2.16	-2.15	2.15
FD	-2.84E+03	8.54E+03	-2.82E+03	8.52E+03
L1	-1.07E+04	-8.28E+03	-1.07E+04	-8.28E+03
L3	-1.07E+04	-8.28E+03	-1.07E+04	-8.28E+03
L4	-8.79E+04	3.23E+04	-6.73E+04	228.
NF	—	—	—	—
NS	-2.91E+04	3.82E+04	-1.22E+04	2.45E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-529. Time history of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

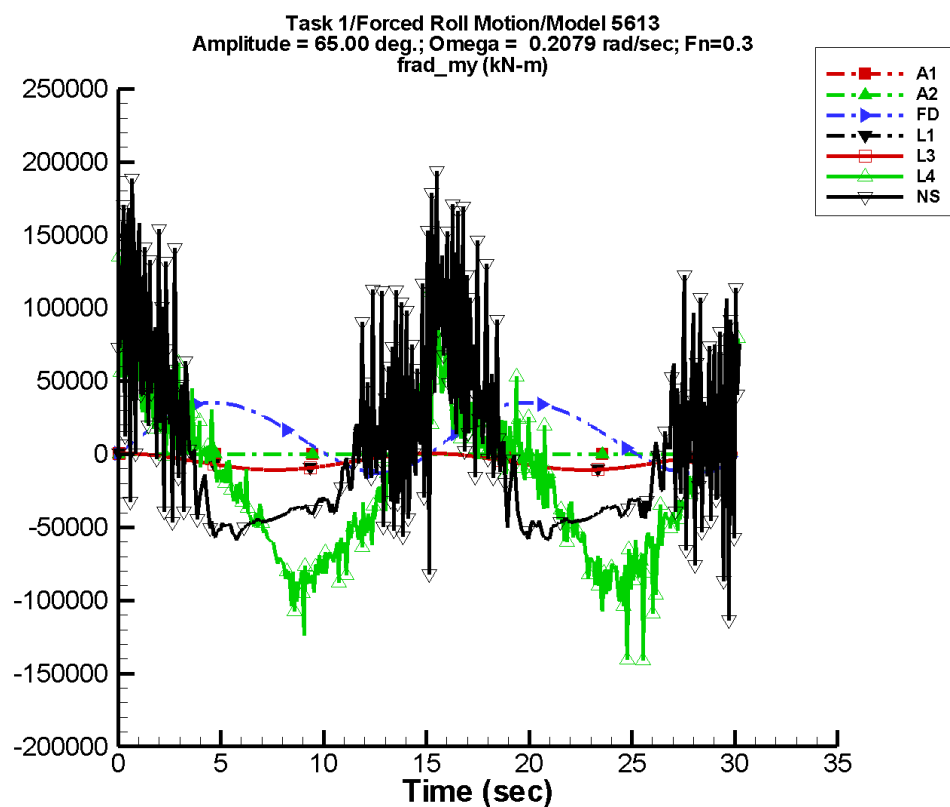
Table C–1057. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-5.67E-04	3.24	102	1.79E-03	48
A2	-5.67E-04	3.24	102	1.79E-03	48
FD	6.21E+03	22.9	128	1.23E+04	-29
L1	-7.98E+03	0.879	89	2.72E+03	88
L3	-7.98E+03	9.65	-74	2.72E+03	88
L4	-2.57E+04	1.97E+03	112	3.16E+04	44
NF	—	—	—	—	—
NS	1.36E+03	145.	-82	2.87E+04	57

Table C–1058. Minimum and maximum of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.22	3.23	-3.22	3.23
A2	-3.22	3.23	-3.22	3.23
FD	-6.30E+03	1.84E+04	-6.25E+03	1.84E+04
L1	-1.07E+04	-5.26E+03	-1.07E+04	-5.26E+03
L3	-1.07E+04	-5.26E+03	-1.07E+04	-5.26E+03
L4	-7.74E+04	4.80E+04	-6.45E+04	1.64E+04
NF	—	—	—	—
NS	-4.98E+04	8.80E+04	-2.55E+04	5.06E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-530. Time history of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

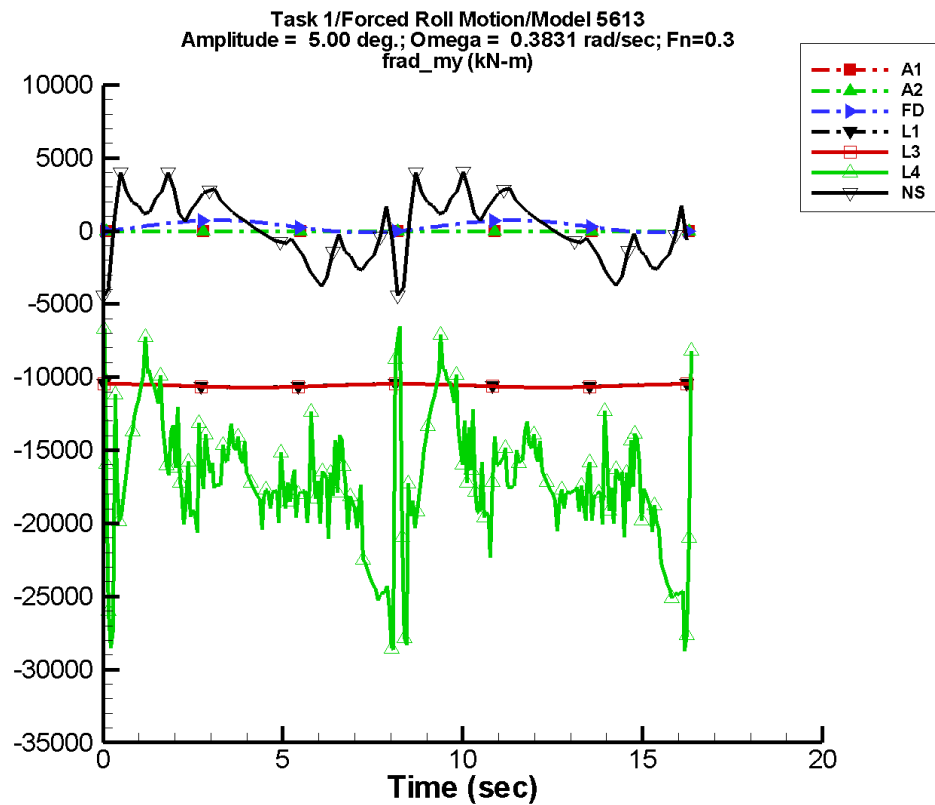
Table C–1059. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-8.19E-04	4.68	102	2.58E-03	48
A2	-8.19E-04	4.68	102	2.58E-03	48
FD	1.19E+04	96.7	128	2.40E+04	-27
L1	-5.02E+03	1.40	91	5.67E+03	88
L3	-5.03E+03	9.20	-73	5.67E+03	88
L4	-1.88E+04	3.03E+03	110	6.24E+04	56
NF	—	—	—	—	—
NS	213.	459.	-11	5.93E+04	84

Table C–1060. Minimum and maximum of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.66	4.67	-4.65	4.67
A2	-4.66	4.67	-4.65	4.67
FD	-1.28E+04	3.54E+04	-1.27E+04	3.53E+04
L1	-1.07E+04	648.	-1.07E+04	641.
L3	-1.07E+04	649.	-1.07E+04	643.
L4	-1.41E+05	1.11E+05	-9.35E+04	7.84E+04
NF	—	—	—	—
NS	-1.18E+05	1.94E+05	-5.58E+04	1.04E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-531. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

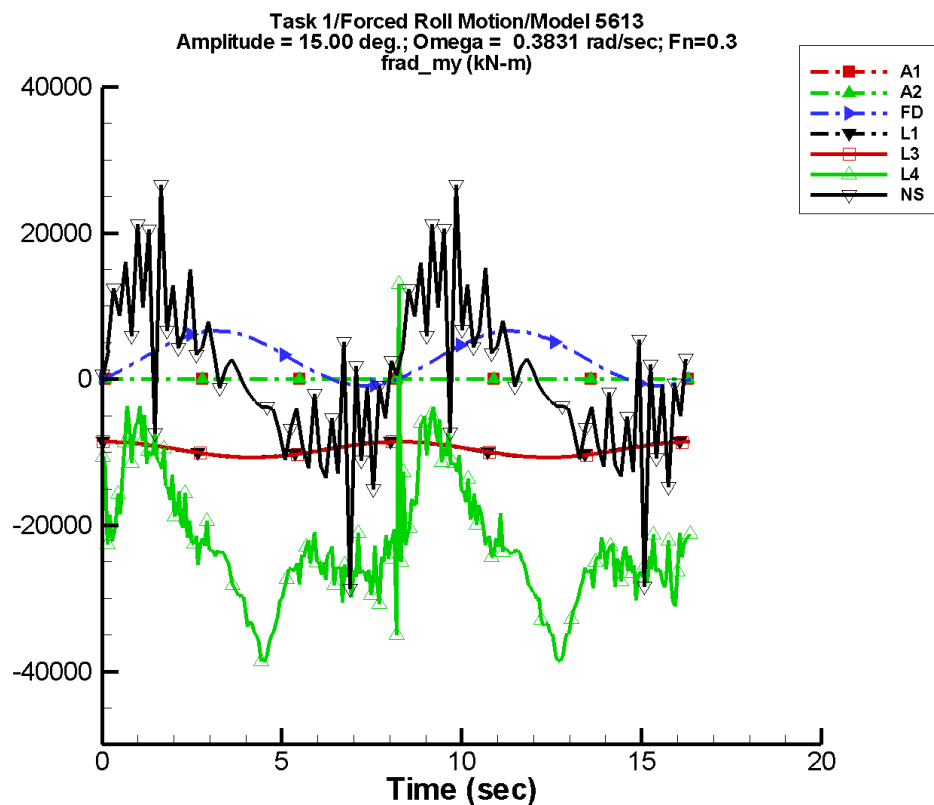
Table C–1061. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	3.12E-04	0.727	88	1.54E-03	76
A2	3.12E-04	0.727	88	1.54E-03	76
FD	320.	5.94E-03	-21	419.	-50
L1	-1.06E+04	0.158	132	119.	89
L3	-1.06E+04	4.02	-143	119.	84
L4	-1.72E+04	148.	51	2.39E+03	-16
NF	—	—	—	—	—
NS	208.	42.7	174	2.39E+03	-10

Table C–1062. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-0.725	0.730	-0.722	0.730
A2	-0.725	0.730	-0.722	0.730
FD	-98.7	739.	-92.5	733.
L1	-1.07E+04	-1.05E+04	-1.07E+04	-1.05E+04
L3	-1.07E+04	-1.05E+04	-1.07E+04	-1.05E+04
L4	-3.23E+04	-6.52E+03	-2.55E+04	-9.63E+03
NF	—	—	—	—
NS	-4.43E+03	4.22E+03	-2.34E+03	2.42E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-532. Time history of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

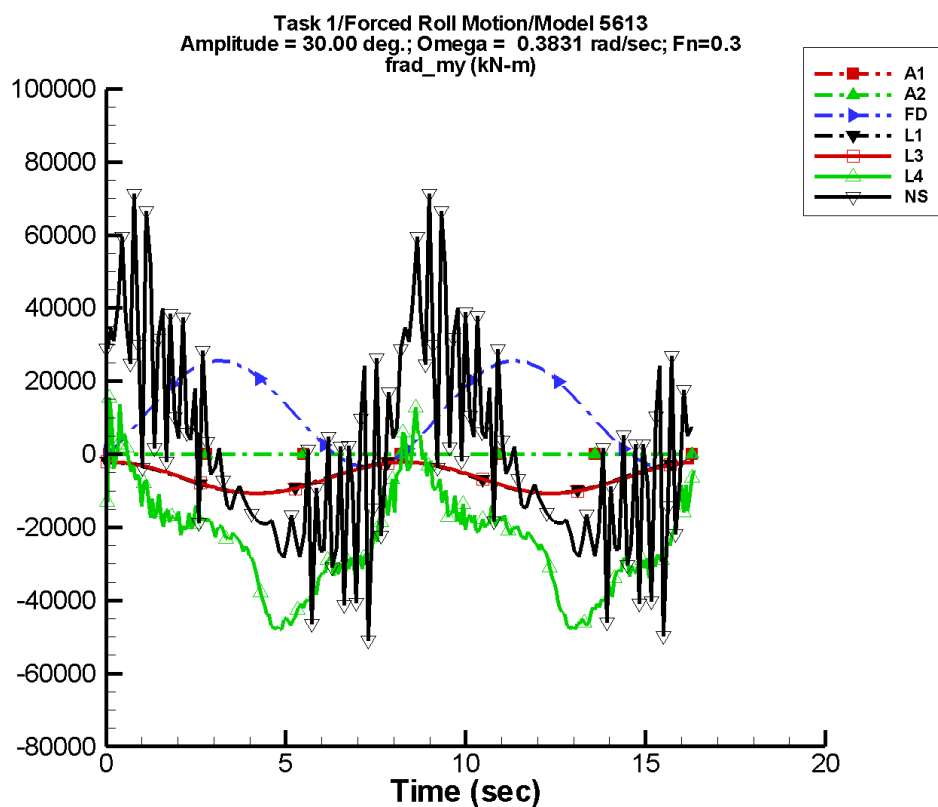
Table C–1063. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	9.37E-04	2.18	88	4.63E-03	76
A2	9.37E-04	2.18	88	4.63E-03	76
FD	2.86E+03	0.469	-21	3.74E+03	-50
L1	-9.63E+03	0.556	99	1.07E+03	89
L3	-9.63E+03	3.79	-148	1.07E+03	85
L4	-2.28E+04	318.	34	9.52E+03	46
NF	—	—	—	—	—
NS	845.	199.	176	1.07E+04	14

Table C–1064. Minimum and maximum of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.17	2.19	-2.16	2.19
A2	-2.17	2.19	-2.16	2.19
FD	-887.	6.59E+03	-831.	6.54E+03
L1	-1.07E+04	-8.55E+03	-1.07E+04	-8.56E+03
L3	-1.07E+04	-8.55E+03	-1.07E+04	-8.56E+03
L4	-3.90E+04	1.31E+04	-3.70E+04	-6.36E+03
NF	—	—	—	—
NS	-2.87E+04	2.75E+04	-8.96E+03	1.33E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-533. Time history of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

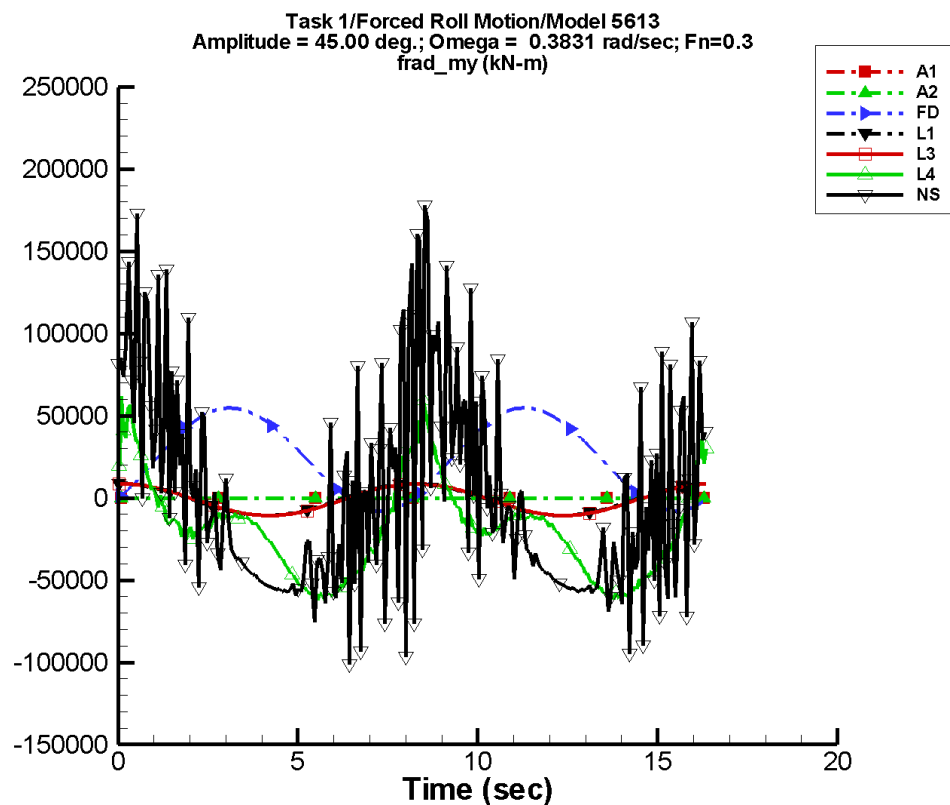
Table C–1065. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	1.87E-03	4.36	88	9.25E-03	76
A2	1.87E-03	4.36	88	9.25E-03	76
FD	1.12E+04	7.41	-21	1.45E+04	-49
L1	-6.42E+03	1.21	93	4.29E+03	89
L3	-6.42E+03	3.47	-157	4.28E+03	85
L4	-2.33E+04	122.	130	1.73E+04	48
NF	—	—	—	—	—
NS	1.31E+03	376.	177	2.84E+04	43

Table C–1066. Minimum and maximum of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.35	4.38	-4.33	4.38
A2	-4.35	4.38	-4.33	4.38
FD	-3.53E+03	2.56E+04	-3.31E+03	2.54E+04
L1	-1.07E+04	-2.12E+03	-1.07E+04	-2.13E+03
L3	-1.07E+04	-2.13E+03	-1.07E+04	-2.13E+03
L4	-4.79E+04	1.74E+04	-4.70E+04	4.18E+03
NF	—	—	—	—
NS	-5.10E+04	7.29E+04	-2.30E+04	4.22E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-534. Time history of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

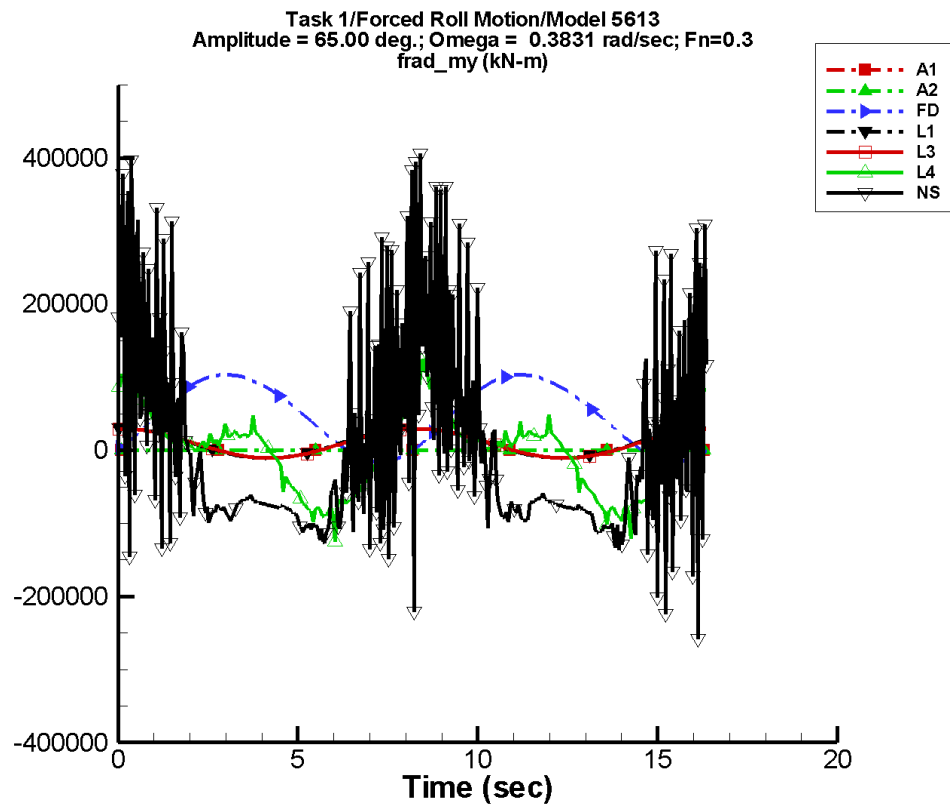
Table C–1067. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	2.81E-03	6.54	88	1.39E-02	76
A2	2.81E-03	6.54	88	1.39E-02	76
FD	2.41E+04	36.6	-21	3.12E+04	-48
L1	-1.07E+03	1.96	92	9.66E+03	89
L3	-1.07E+03	3.27	-169	9.64E+03	85
L4	-1.82E+04	1.57E+03	146	3.00E+04	47
NF	—	—	—	—	—
NS	-76.6	365.	-176	6.18E+04	62

Table C–1068. Minimum and maximum of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.52	6.57	-6.49	6.57
A2	-6.52	6.57	-6.49	6.57
FD	-7.90E+03	5.47E+04	-7.40E+03	5.43E+04
L1	-1.07E+04	8.59E+03	-1.07E+04	8.59E+03
L3	-1.07E+04	8.57E+03	-1.07E+04	8.58E+03
L4	-6.23E+04	6.17E+04	-5.97E+04	4.47E+04
NF	—	—	—	—
NS	-1.01E+05	1.80E+05	-5.65E+04	9.49E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-535. Time history of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

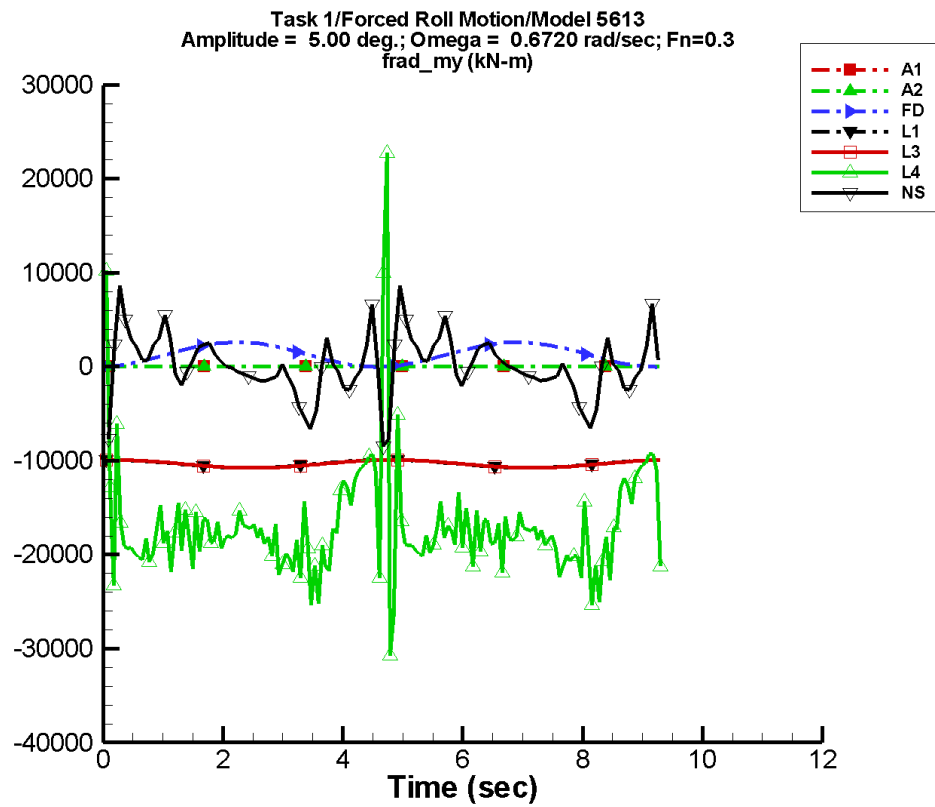
Table C–1069. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	4.06E-03	9.45	88	2.00E-02	76
A2	-2.13E-03	9.45	88	1.54E-02	-65
FD	4.61E+04	152.	-20	5.92E+04	-46
L1	9.39E+03	2.81	92	2.02E+04	89
L3	9.39E+03	3.24	176	2.01E+04	85
L4	-16.0	2.96E+03	149	5.58E+04	33
NF	—	—	—	—	—
NS	-3.41E+03	459.	-10	1.19E+05	75

Table C–1070. Minimum and maximum of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.42	9.49	-9.38	9.49
A2	-9.50	9.77	-9.46	9.42
FD	-1.63E+04	1.03E+05	-1.52E+04	1.03E+05
L1	-1.08E+04	2.95E+04	-1.07E+04	2.95E+04
L3	-1.07E+04	2.95E+04	-1.06E+04	2.95E+04
L4	-1.24E+05	1.28E+05	-8.81E+04	1.05E+05
NF	—	—	—	—
NS	-2.61E+05	4.06E+05	-1.17E+05	1.98E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-536. Time history of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

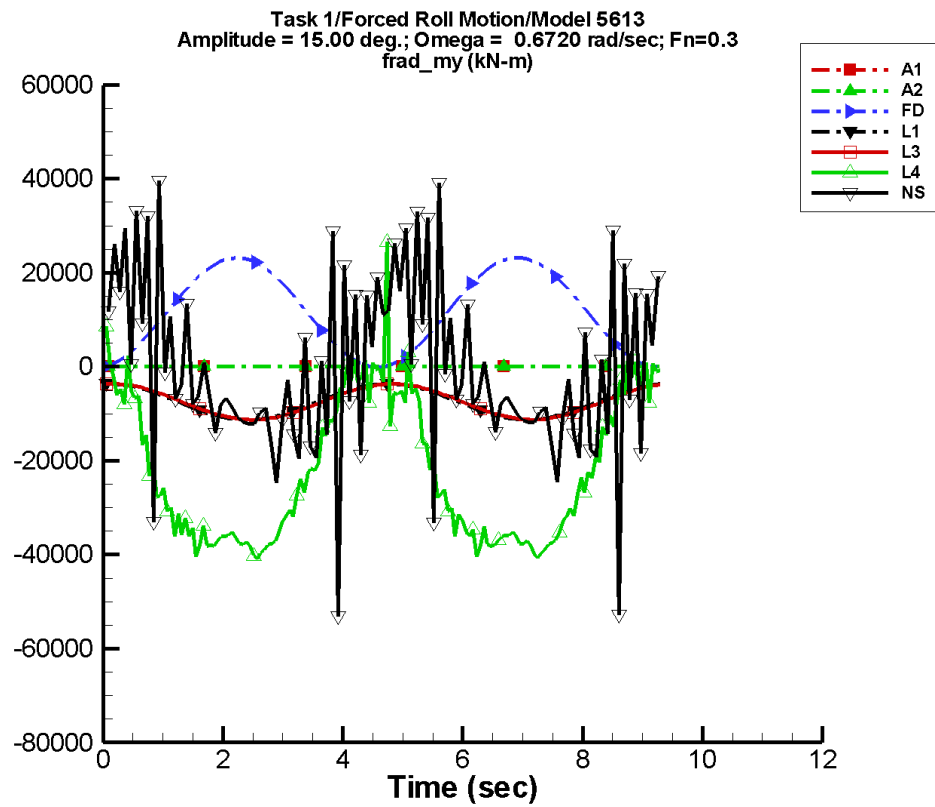
Table C–1071. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.71E-04	1.23	73	4.68E-04	-4
A2	-1.71E-04	1.23	73	4.68E-04	-4
FD	1.30E+03	2.92E-02	-34	1.31E+03	-82
L1	-1.03E+04	0.603	87	426.	84
L3	-1.03E+04	6.66	110	420.	78
L4	-1.69E+04	135.	-77	2.61E+03	89
NF	—	—	—	—	—
NS	51.7	43.0	162	2.17E+03	20

Table C–1072. Minimum and maximum of M_y^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.27	1.26	-1.22	1.22
A2	-1.27	1.26	-1.22	1.22
FD	-11.8	2.60E+03	48.0	2.54E+03
L1	-1.08E+04	-9.91E+03	-1.08E+04	-9.91E+03
L3	-1.08E+04	-9.90E+03	-1.08E+04	-9.91E+03
L4	-3.07E+04	2.28E+04	-2.12E+04	-565.
NF	—	—	—	—
NS	-8.46E+03	8.82E+03	-4.40E+03	2.97E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-537. Time history of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

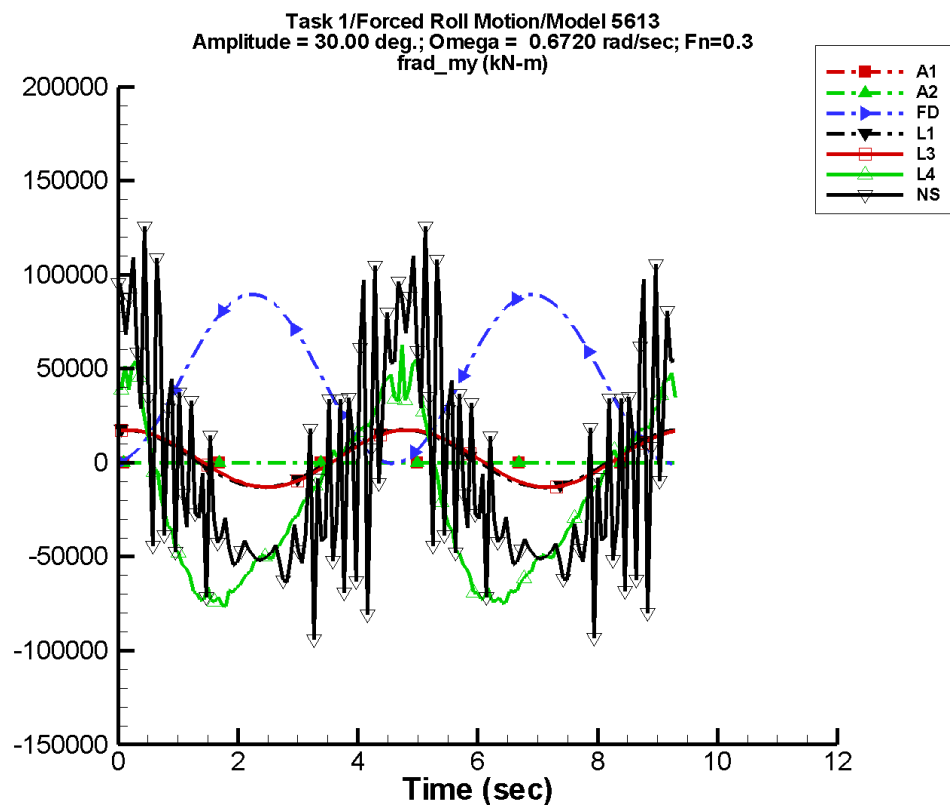
Table C–1073. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-5.12E-04	3.70	73	1.40E-03	-4
A2	-5.12E-04	3.70	73	1.40E-03	-4
FD	1.16E+04	2.35	-23	1.16E+04	-82
L1	-7.47E+03	1.54	82	3.84E+03	84
L3	-7.47E+03	7.40	107	3.80E+03	78
L4	-2.21E+04	45.0	98	2.02E+04	103
NF	—	—	—	—	—
NS	-396.	237.	164	1.45E+04	59

Table C–1074. Minimum and maximum of M_y^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.80	3.77	-3.65	3.65
A2	-3.80	3.77	-3.65	3.65
FD	-106.	2.32E+04	432.	2.27E+04
L1	-1.13E+04	-3.63E+03	-1.12E+04	-3.63E+03
L3	-1.13E+04	-3.66E+03	-1.12E+04	-3.67E+03
L4	-4.09E+04	2.65E+04	-3.89E+04	3.87E+03
NF	—	—	—	—
NS	-5.31E+04	4.00E+04	-1.29E+04	1.87E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-538. Time history of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

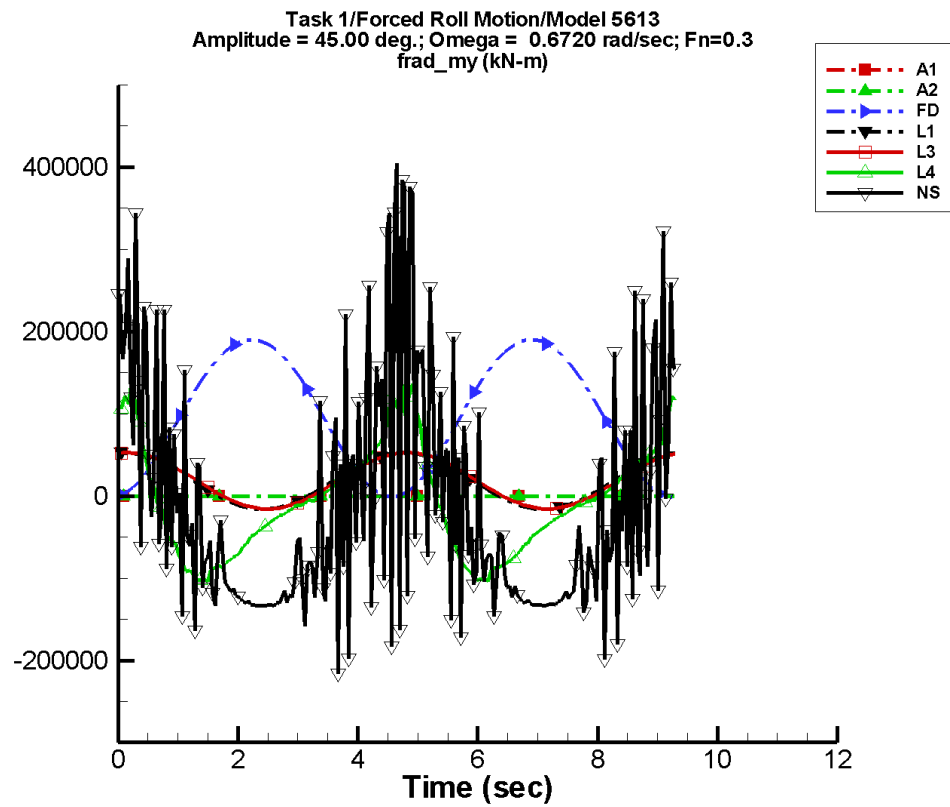
Table C–1075. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.02E-03	7.39	73	2.80E-03	-4
A2	-1.02E-03	7.39	73	2.80E-03	-4
FD	4.51E+04	37.1	-22	4.50E+04	-82
L1	2.20E+03	2.97	81	1.53E+04	84
L3	2.21E+03	8.61	103	1.52E+04	78
L4	-1.81E+04	527.	48	5.49E+04	118
NF	—	—	—	—	—
NS	-3.37E+03	497.	164	5.77E+04	80

Table C–1076. Minimum and maximum of M_y^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.60	7.54	-7.31	7.30
A2	-7.60	7.54	-7.31	7.30
FD	-425.	8.96E+04	1.73E+03	8.76E+04
L1	-1.31E+04	1.76E+04	-1.29E+04	1.76E+04
L3	-1.30E+04	1.74E+04	-1.28E+04	1.74E+04
L4	-7.61E+04	6.26E+04	-7.27E+04	4.47E+04
NF	—	—	—	—
NS	-9.38E+04	1.28E+05	-5.17E+04	9.05E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-539. Time history of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

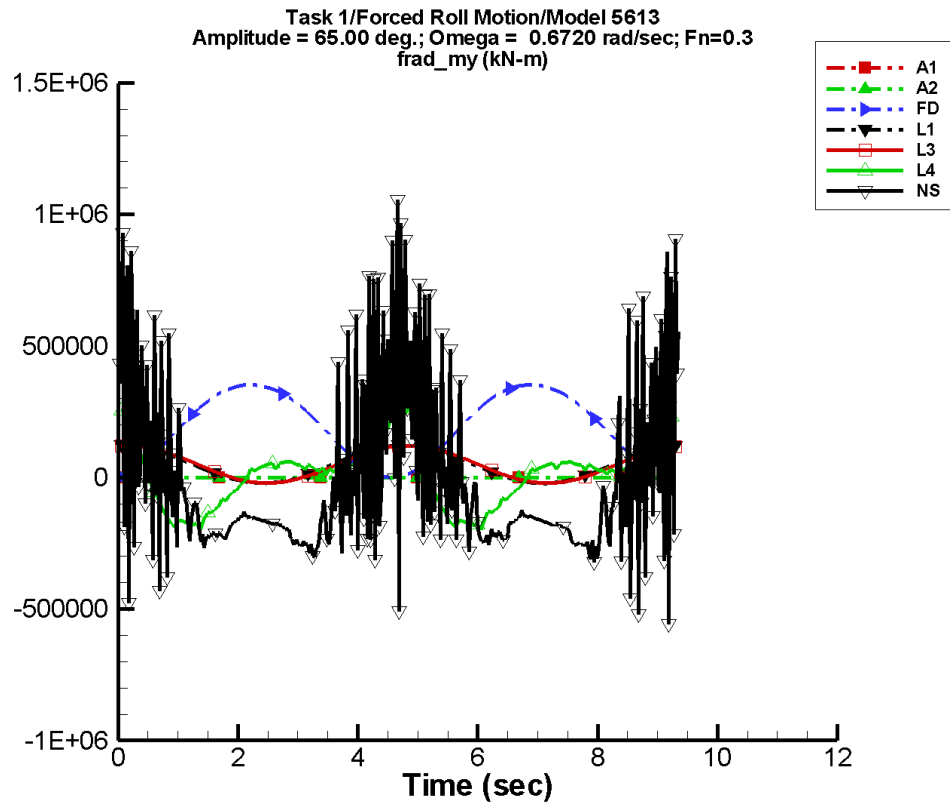
Table C–1077. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.54E-03	11.1	73	4.21E-03	-4
A2	-1.54E-03	11.1	73	4.21E-03	-4
FD	9.71E+04	183.	-22	9.54E+04	-82
L1	1.83E+04	4.37	81	3.45E+04	84
L3	1.83E+04	9.80	100	3.42E+04	78
L4	-4.81E+03	1.23E+03	37	8.22E+04	123
NF	—	—	—	—	—
NS	-1.29E+04	459.	174	1.38E+05	85

Table C–1078. Minimum and maximum of M_y^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-11.4	11.3	-11.0	11.0
A2	-11.4	11.3	-11.0	11.0
FD	-955.	1.90E+05	3.89E+03	1.86E+05
L1	-1.62E+04	5.29E+04	-1.57E+04	5.29E+04
L3	-1.59E+04	5.25E+04	-1.53E+04	5.26E+04
L4	-1.04E+05	1.42E+05	-9.73E+04	1.14E+05
NF	—	—	—	—
NS	-2.16E+05	4.07E+05	-1.33E+05	2.26E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-540. Time history of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

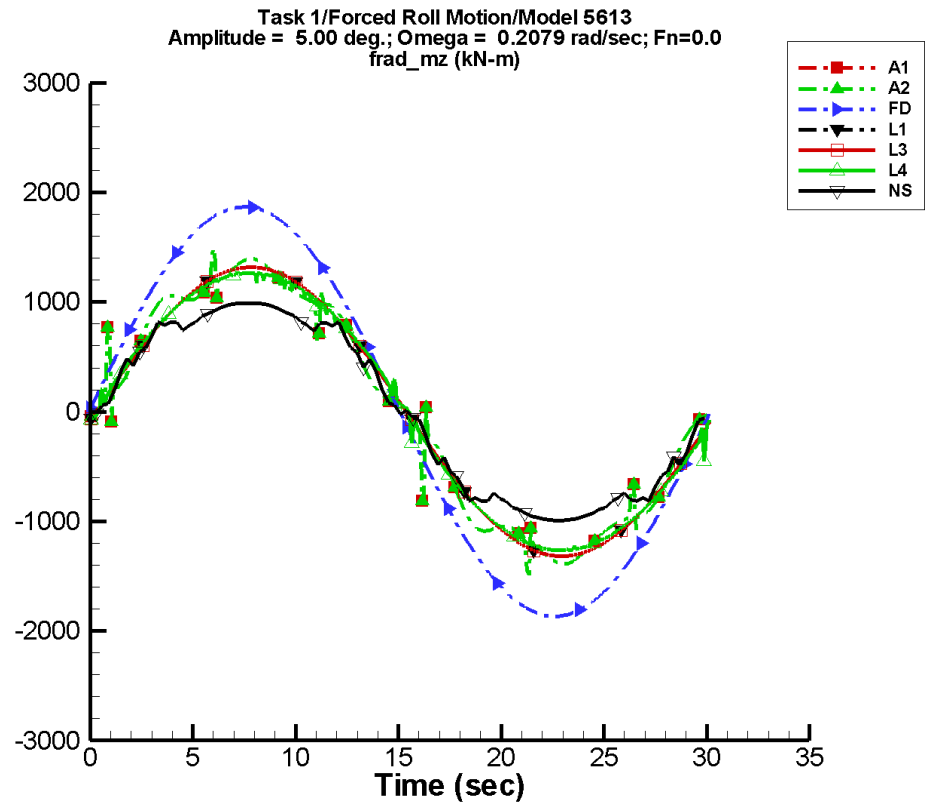
Table C–1079. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.22E-03	16.0	73	6.08E-03	-4
A2	-2.22E-03	16.0	73	6.08E-03	-4
FD	1.85E+05	752.	-22	1.77E+05	-81
L1	4.99E+04	6.27	81	7.21E+04	84
L3	4.99E+04	11.5	98	7.14E+04	78
L4	2.02E+04	2.48E+03	-2	1.30E+05	148
NF	—	—	—	—	—
NS	-2.32E+04	207.	154	2.60E+05	86

Table C–1080. Minimum and maximum of M_y^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-16.5	16.3	-15.8	15.8
A2	-16.5	16.3	-15.8	15.8
FD	-1.99E+03	3.52E+05	8.12E+03	3.46E+05
L1	-2.22E+04	1.22E+05	-2.10E+04	1.22E+05
L3	-2.15E+04	1.21E+05	-2.04E+04	1.21E+05
L4	-1.98E+05	2.92E+05	-1.77E+05	2.47E+05
NF	—	—	—	—
NS	-5.56E+05	1.06E+06	-2.77E+05	5.05E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-541. Time history of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

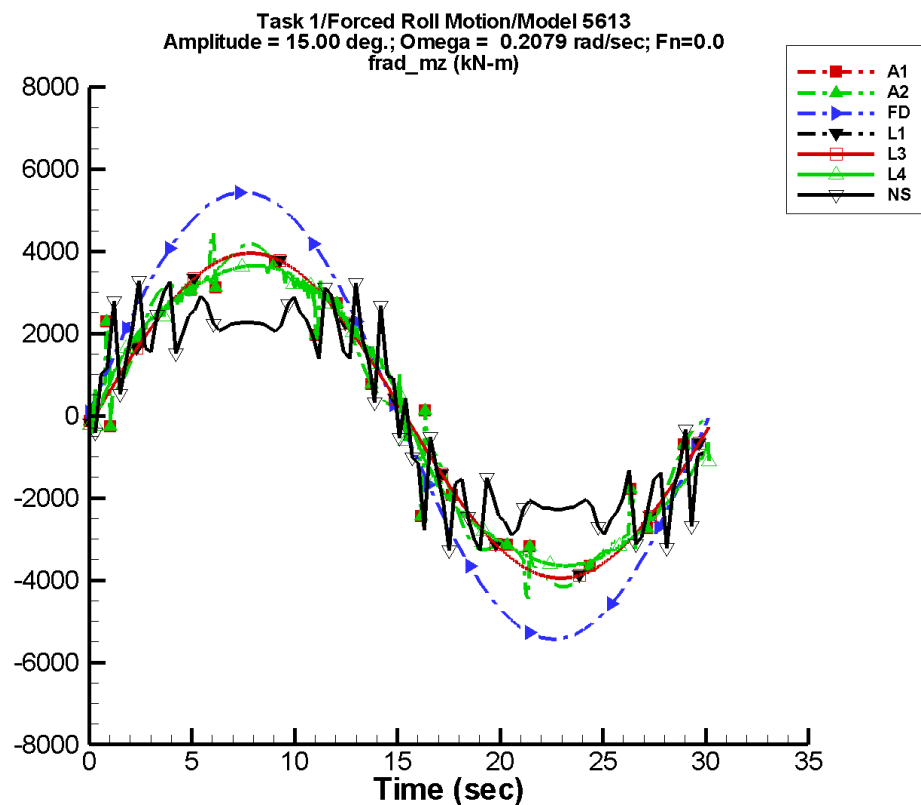
Table C–1081. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-2.29	1.31E+03	0	1.17	12
A2	-2.29	1.31E+03	0	1.17	12
FD	5.27E-02	1.87E+03	1	0.267	58
L1	-1.18E-03	1.32E+03	-3	2.69E-03	-93
L3	-1.26E-03	1.32E+03	-3	2.70E-03	-91
L4	-0.359	1.29E+03	-3	7.28	46
NF	—	—	—	—	—
NS	-9.83E-03	1.03E+03	-2	2.93E-02	-23

Table C–1082. Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.49E+03	1.49E+03	-1.38E+03	1.39E+03
A2	-1.49E+03	1.49E+03	-1.38E+03	1.39E+03
FD	-1.87E+03	1.87E+03	-1.87E+03	1.87E+03
L1	-1.32E+03	1.32E+03	-1.32E+03	1.32E+03
L3	-1.32E+03	1.32E+03	-1.32E+03	1.32E+03
L4	-1.27E+03	1.28E+03	-1.26E+03	1.26E+03
NF	—	—	—	—
NS	-992.	992.	-985.	985.

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-542. Time history of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

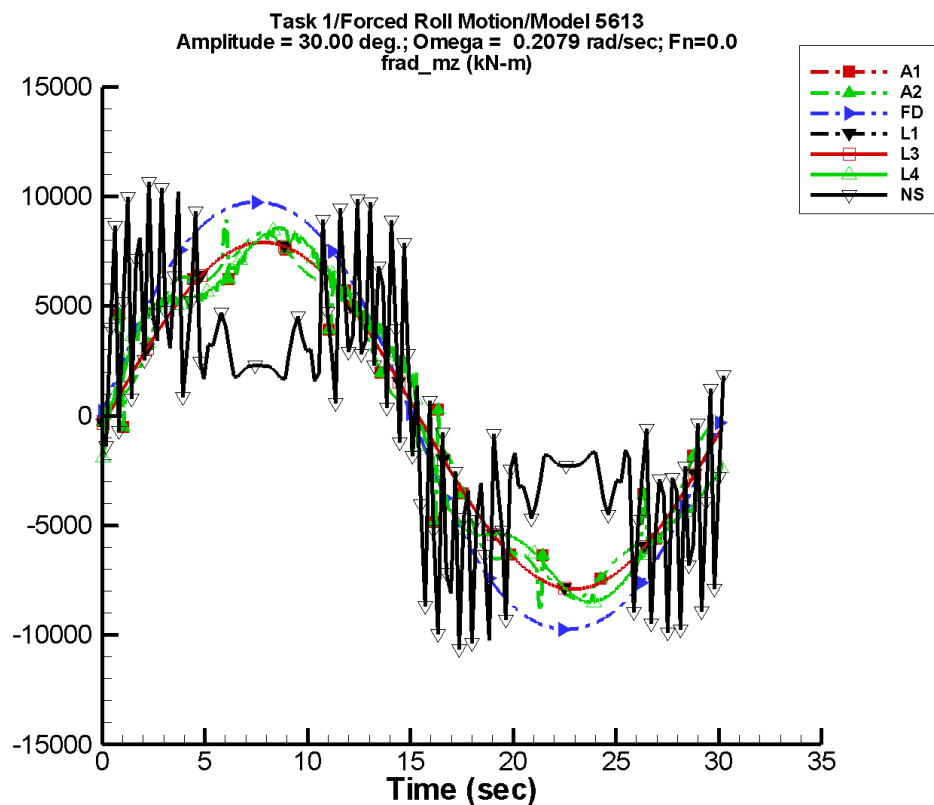
Table C–1083. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-6.86	3.93E+03	0	3.49	12
A2	-6.86	3.93E+03	0	3.49	12
FD	1.41	5.48E+03	1	7.16	58
L1	-7.37E-03	3.95E+03	-3	9.61E-03	-98
L3	-6.86E-03	3.95E+03	-3	9.74E-03	-97
L4	-2.24	3.81E+03	-3	56.9	58
NF	—	—	—	—	—
NS	-2.81E-02	2.86E+03	0	7.57E-02	17

Table C–1084. Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.46E+03	4.46E+03	-4.14E+03	4.15E+03
A2	-4.46E+03	4.46E+03	-4.14E+03	4.15E+03
FD	-5.43E+03	5.43E+03	-5.43E+03	5.43E+03
L1	-3.95E+03	3.95E+03	-3.95E+03	3.95E+03
L3	-3.95E+03	3.95E+03	-3.95E+03	3.95E+03
L4	-3.65E+03	3.65E+03	-3.65E+03	3.65E+03
NF	—	—	—	—
NS	-3.28E+03	3.28E+03	-2.45E+03	2.44E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-543. Time history of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

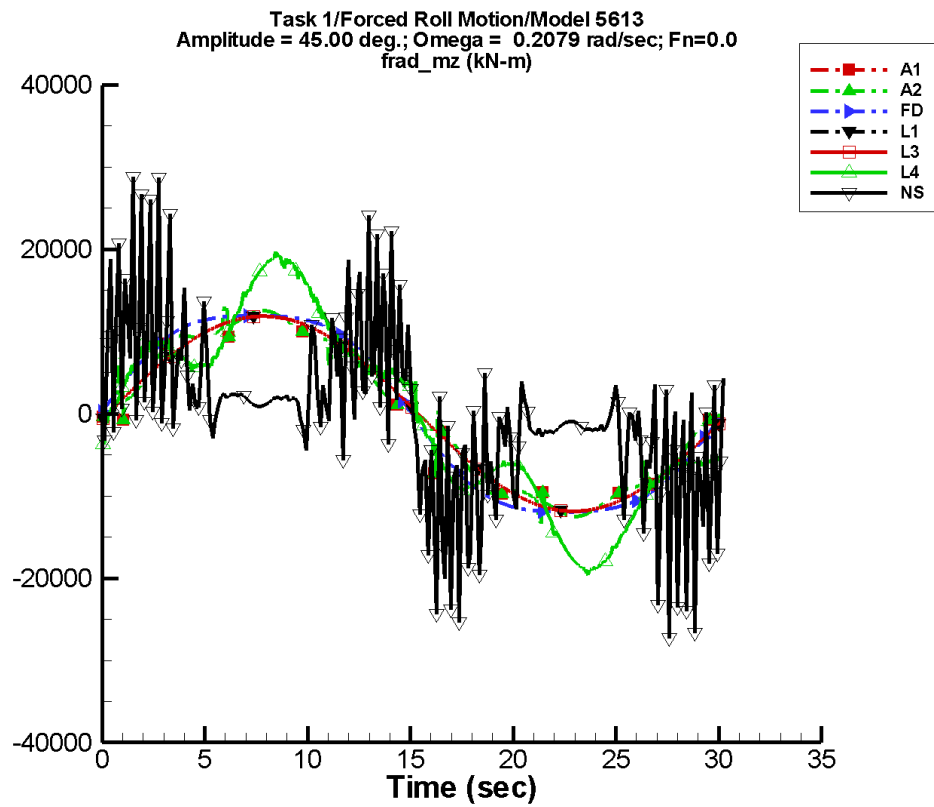
Table C–1085. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-13.7	7.86E+03	0	6.99	12
A2	-13.7	7.86E+03	0	6.99	12
FD	11.1	1.01E+04	1	56.1	58
L1	-2.38E-02	7.91E+03	-3	2.96E-02	-94
L3	-2.46E-02	7.91E+03	-3	2.89E-02	-94
L4	-36.2	8.15E+03	-4	102.	89
NF	—	—	—	—	—
NS	-2.81E-02	4.85E+03	4	0.220	-25

Table C–1086. Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-8.91E+03	8.92E+03	-8.28E+03	8.31E+03
A2	-8.91E+03	8.92E+03	-8.28E+03	8.31E+03
FD	-9.74E+03	9.74E+03	-9.73E+03	9.73E+03
L1	-7.91E+03	7.91E+03	-7.90E+03	7.90E+03
L3	-7.91E+03	7.91E+03	-7.90E+03	7.90E+03
L4	-8.52E+03	8.72E+03	-8.47E+03	8.55E+03
NF	—	—	—	—
NS	-1.07E+04	1.07E+04	-6.13E+03	6.17E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-544. Time history of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

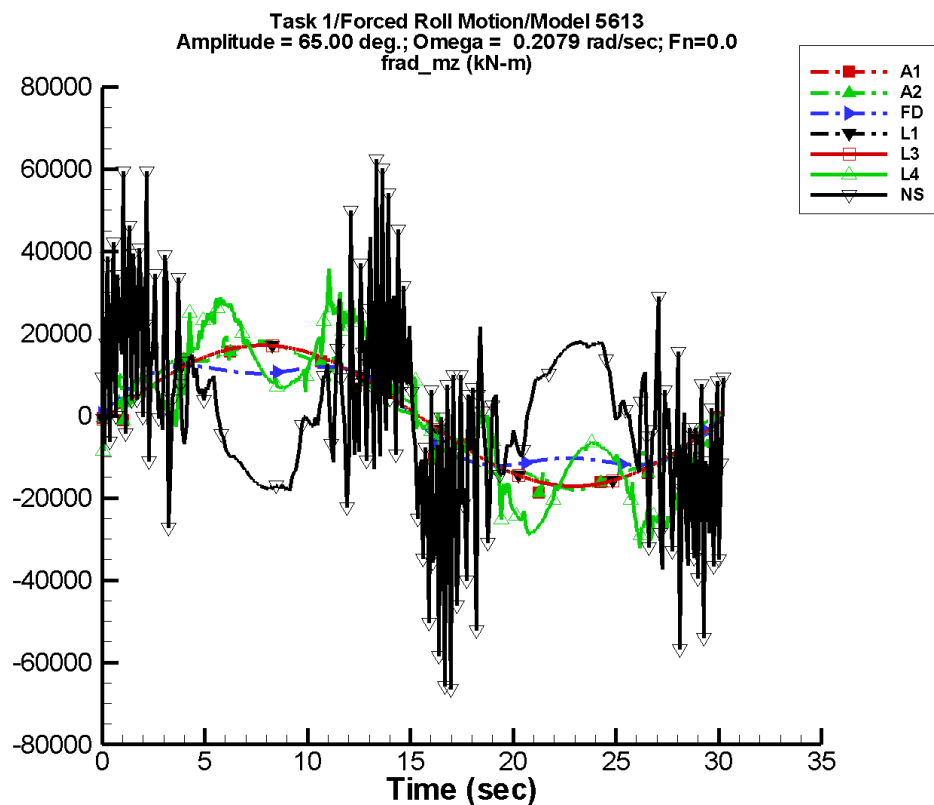
Table C–1087. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-20.6	1.18E+04	0	10.5	12
A2	-20.6	1.18E+04	0	10.5	12
FD	36.3	1.31E+04	1	183.	58
L1	-4.35E-02	1.19E+04	-3	5.49E-02	-94
L3	-4.37E-02	1.19E+04	-3	5.45E-02	-93
L4	-174.	1.44E+04	-6	372.	-149
NF	—	—	—	—	—
NS	2.33	5.81E+03	8	13.2	60

Table C–1088. Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.34E+04	1.34E+04	-1.24E+04	1.25E+04
A2	-1.34E+04	1.34E+04	-1.24E+04	1.25E+04
FD	-1.19E+04	1.19E+04	-1.19E+04	1.20E+04
L1	-1.19E+04	1.19E+04	-1.19E+04	1.19E+04
L3	-1.19E+04	1.19E+04	-1.19E+04	1.19E+04
L4	-1.95E+04	1.97E+04	-1.91E+04	1.91E+04
NF	—	—	—	—
NS	-2.73E+04	2.88E+04	-1.25E+04	1.27E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-545. Time history of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

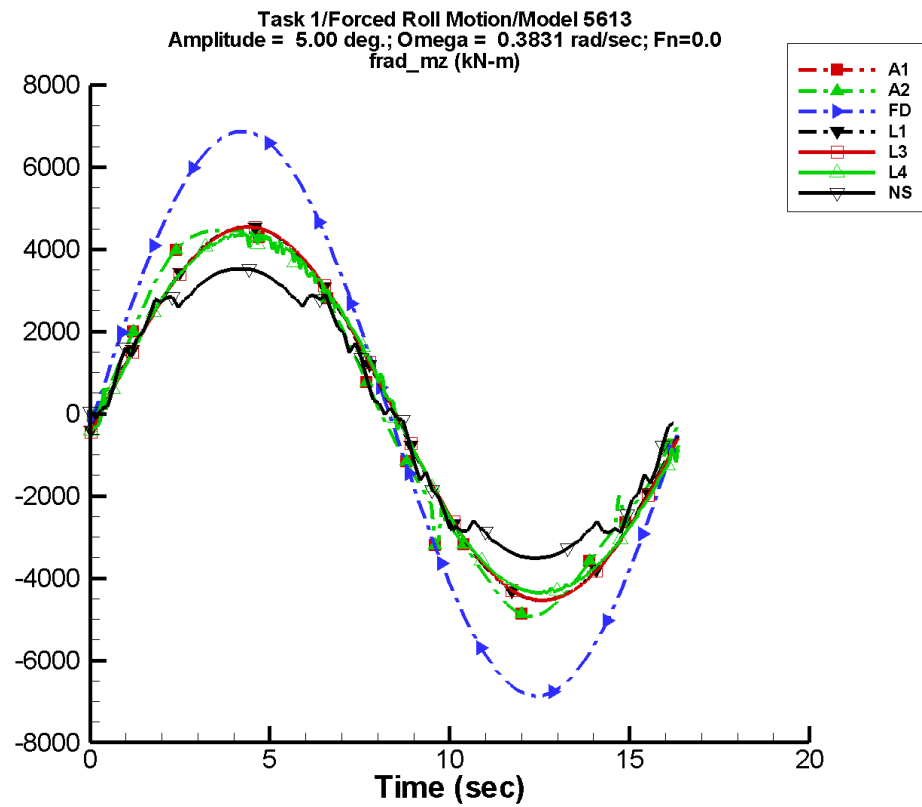
Table C–1089. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-29.8	1.70E+04	0	15.1	12
A2	-29.8	1.70E+04	0	15.1	12
FD	103.	1.36E+04	2	516.	59
L1	-9.63E-02	1.71E+04	-3	0.116	-95
L3	-9.56E-02	1.71E+04	-3	0.114	-95
L4	-41.2	2.00E+04	-12	851.	83
NF	—	—	—	—	—
NS	50.8	2.86E+03	101	48.7	-130

Table C–1090. Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.93E+04	1.93E+04	-1.79E+04	1.80E+04
A2	-1.93E+04	1.93E+04	-1.79E+04	1.80E+04
FD	-1.22E+04	1.22E+04	-1.21E+04	1.21E+04
L1	-1.71E+04	1.71E+04	-1.71E+04	1.71E+04
L3	-1.71E+04	1.71E+04	-1.71E+04	1.71E+04
L4	-3.21E+04	3.57E+04	-2.82E+04	2.80E+04
NF	—	—	—	—
NS	-6.64E+04	6.28E+04	-2.53E+04	2.52E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-546. Time history of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

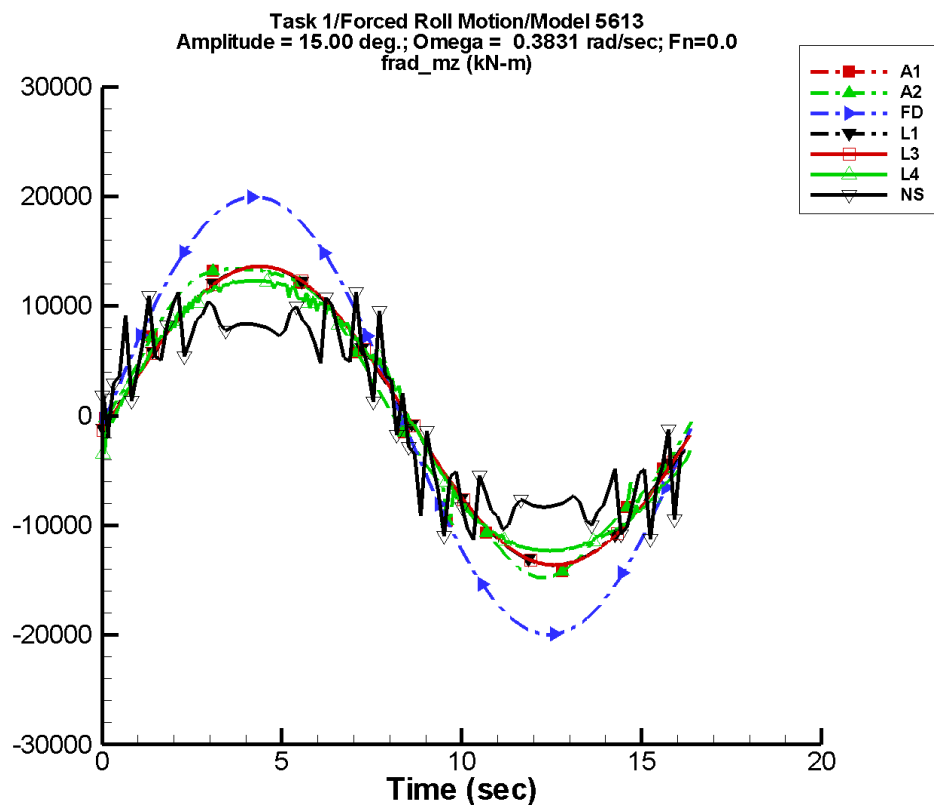
Table C–1091. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-11.0	4.65E+03	0	21.3	0
A2	-11.0	4.65E+03	0	21.3	0
FD	0.183	6.87E+03	-3	1.31	73
L1	-5.79E-02	4.54E+03	-6	0.123	-18
L3	-6.08E-02	4.54E+03	-6	0.126	-21
L4	-4.02	4.42E+03	-6	13.8	21
NF	—	—	—	—	—
NS	5.62E-02	3.62E+03	-3	0.452	174

Table C–1092. Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.93E+03	4.74E+03	-4.89E+03	4.49E+03
A2	-4.93E+03	4.74E+03	-4.89E+03	4.49E+03
FD	-6.86E+03	6.86E+03	-6.84E+03	6.84E+03
L1	-4.54E+03	4.54E+03	-4.53E+03	4.54E+03
L3	-4.54E+03	4.54E+03	-4.53E+03	4.54E+03
L4	-4.36E+03	4.40E+03	-4.34E+03	4.34E+03
NF	—	—	—	—
NS	-3.52E+03	3.53E+03	-3.49E+03	3.50E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-547. Time history of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

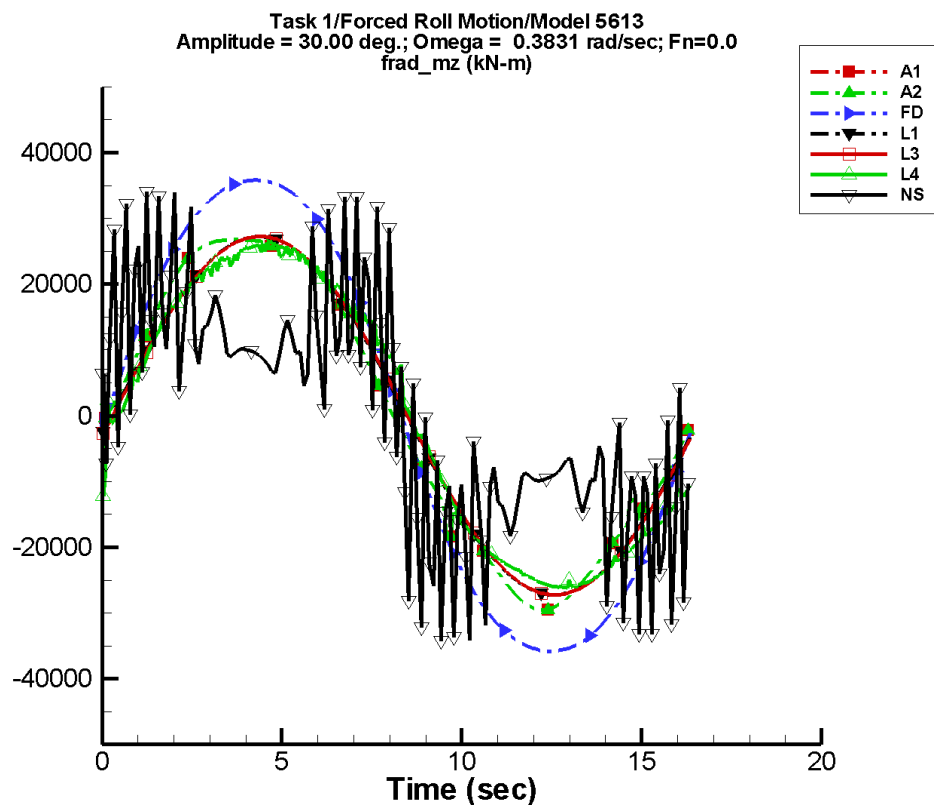
Table C–1093. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-33.1	1.39E+04	0	63.9	0
A2	-33.1	1.39E+04	0	63.9	0
FD	4.89	2.01E+04	-3	35.2	73
L1	-0.187	1.36E+04	-6	0.373	-20
L3	-0.193	1.36E+04	-6	0.379	-22
L4	-38.9	1.29E+04	-6	57.5	12
NF	—	—	—	—	—
NS	0.200	1.01E+04	-1	1.35	-131

Table C–1094. Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.48E+04	1.42E+04	-1.47E+04	1.35E+04
A2	-1.48E+04	1.42E+04	-1.47E+04	1.35E+04
FD	-2.00E+04	2.00E+04	-1.99E+04	1.99E+04
L1	-1.36E+04	1.36E+04	-1.36E+04	1.36E+04
L3	-1.36E+04	1.36E+04	-1.36E+04	1.36E+04
L4	-1.23E+04	1.23E+04	-1.23E+04	1.23E+04
NF	—	—	—	—
NS	-1.13E+04	1.13E+04	-8.78E+03	8.80E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-548. Time history of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

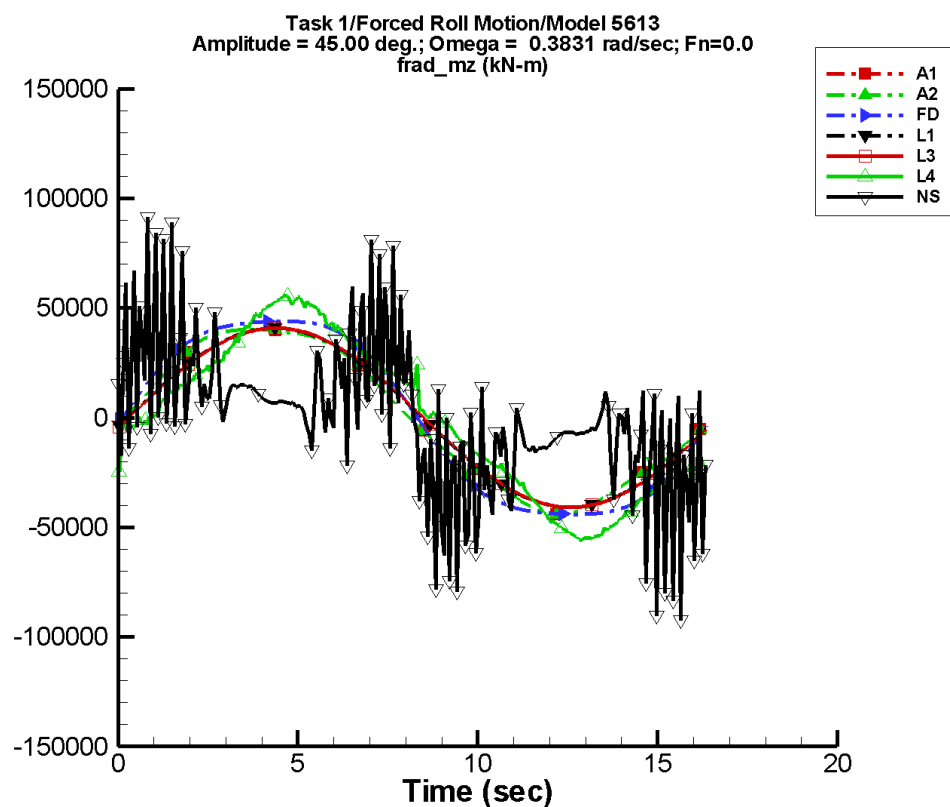
Table C–1095. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-66.2	2.79E+04	0	128.	0
A2	-66.2	2.79E+04	0	128.	0
FD	38.3	3.71E+04	-3	276.	73
L1	-0.406	2.72E+04	-6	0.760	-22
L3	-0.418	2.72E+04	-6	0.770	-25
L4	-216.	2.69E+04	-10	80.8	-14
NF	—	—	—	—	—
NS	0.700	1.73E+04	2	7.43	-94

Table C–1096. Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.96E+04	2.85E+04	-2.93E+04	2.70E+04
A2	-2.96E+04	2.85E+04	-2.93E+04	2.70E+04
FD	-3.58E+04	3.58E+04	-3.57E+04	3.57E+04
L1	-2.72E+04	2.72E+04	-2.72E+04	2.72E+04
L3	-2.72E+04	2.72E+04	-2.72E+04	2.72E+04
L4	-2.62E+04	2.67E+04	-2.60E+04	2.59E+04
NF	—	—	—	—
NS	-3.42E+04	3.41E+04	-1.95E+04	1.94E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-549. Time history of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

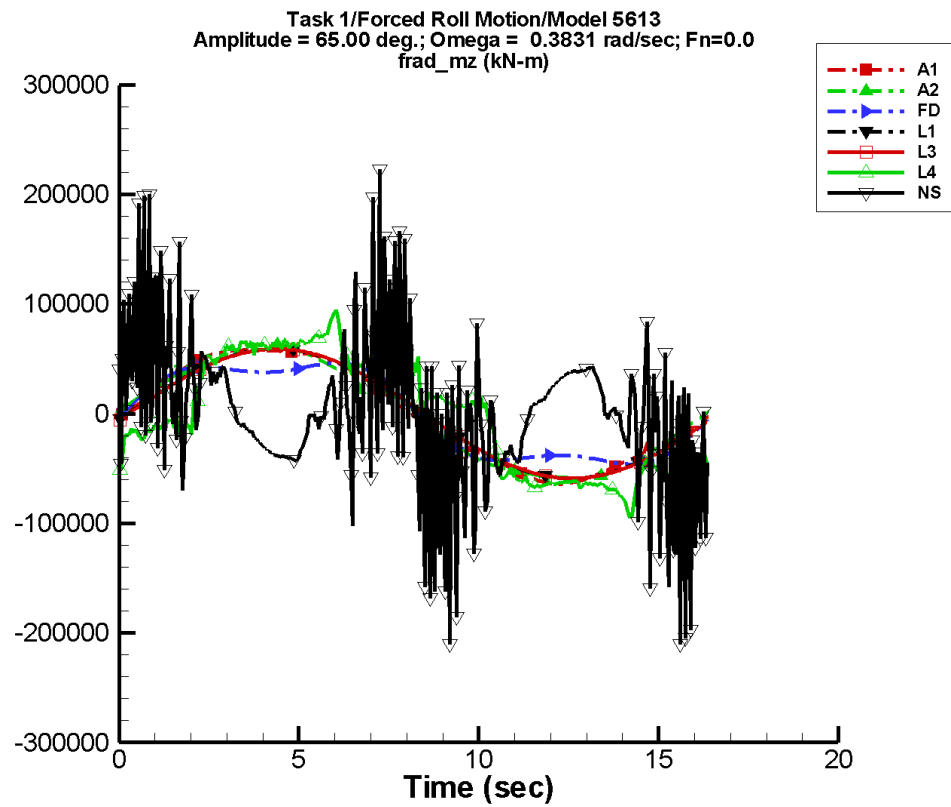
Table C–1097. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-99.2	4.18E+04	0	192.	0
A2	-99.2	4.18E+04	0	192.	0
FD	124.	4.82E+04	-3	899.	73
L1	-0.652	4.09E+04	-6	1.14	-25
L3	-0.673	4.09E+04	-6	1.16	-27
L4	-922.	4.80E+04	-18	830.	-63
NF	—	—	—	—	—
NS	10.0	2.11E+04	7	28.8	35

Table C–1098. Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.43E+04	4.27E+04	-4.40E+04	4.04E+04
A2	-4.43E+04	4.27E+04	-4.40E+04	4.04E+04
FD	-4.40E+04	4.40E+04	-4.40E+04	4.40E+04
L1	-4.09E+04	4.09E+04	-4.08E+04	4.08E+04
L3	-4.09E+04	4.09E+04	-4.08E+04	4.08E+04
L4	-5.58E+04	5.63E+04	-5.51E+04	5.46E+04
NF	—	—	—	—
NS	-9.24E+04	9.16E+04	-3.71E+04	3.76E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-550. Time history of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

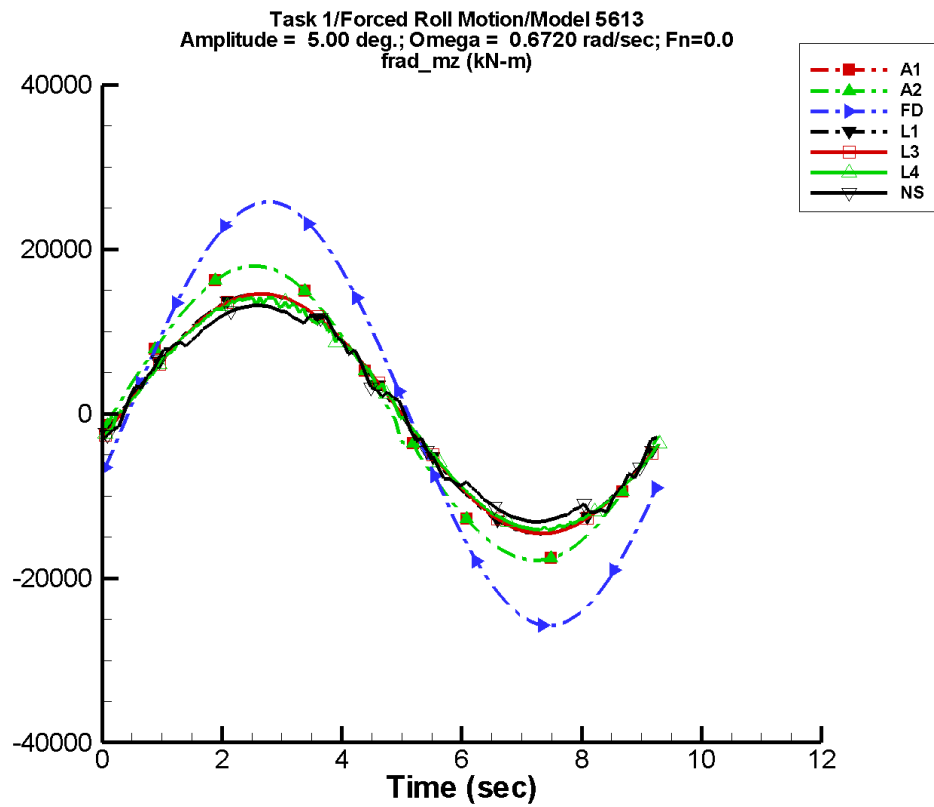
Table C–1099. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-143.	6.04E+04	0	277.	0
A2	-51.1	6.06E+04	0	152.	-11
FD	348.	4.98E+04	-3	2.53E+03	73
L1	-1.06	5.90E+04	-6	1.69	-28
L3	-1.08	5.90E+04	-6	1.73	-31
L4	-1.60E+03	7.19E+04	-28	936.	-72
NF	—	—	—	—	—
NS	35.9	1.20E+04	38	236.	108

Table C–1100. Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-6.40E+04	6.17E+04	-6.35E+04	5.84E+04
A2	-6.19E+04	6.39E+04	-6.15E+04	6.34E+04
FD	-4.61E+04	4.61E+04	-4.57E+04	4.58E+04
L1	-5.90E+04	5.90E+04	-5.90E+04	5.90E+04
L3	-5.90E+04	5.90E+04	-5.90E+04	5.90E+04
L4	-9.53E+04	9.94E+04	-8.19E+04	8.10E+04
NF	—	—	—	—
NS	-2.10E+05	2.23E+05	-8.29E+04	7.23E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-551. Time history of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

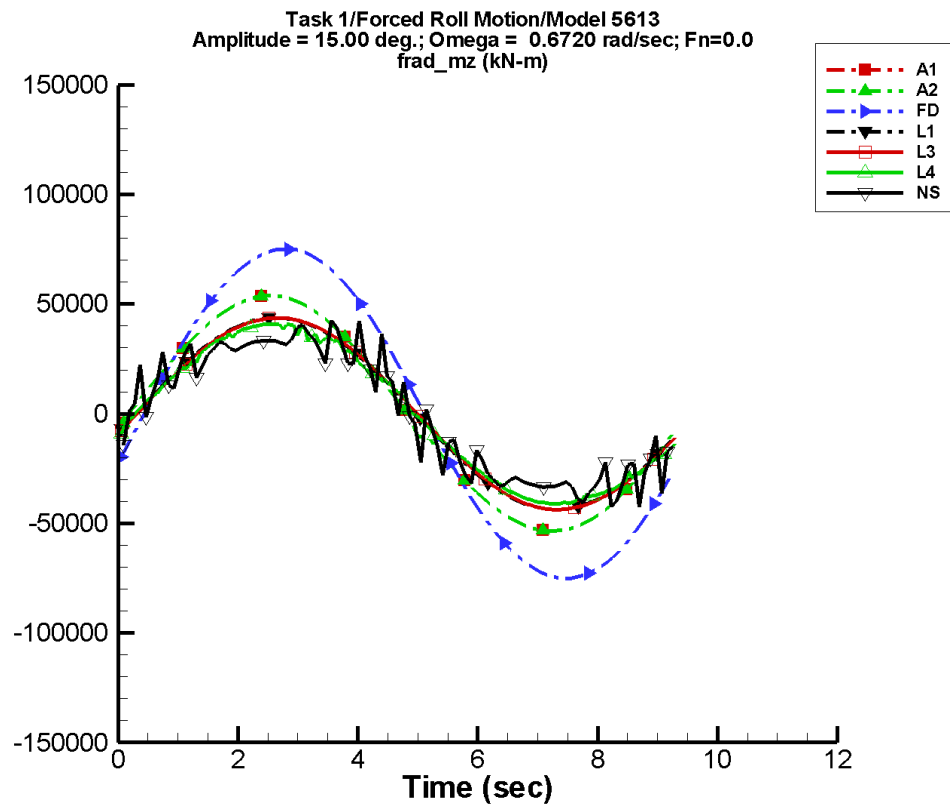
Table C–1101. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-22.8	1.78E+04	-7	62.6	-77
A2	-22.8	1.78E+04	-7	62.6	-77
FD	1.50	2.58E+04	-17	3.37	132
L1	-0.223	1.46E+04	-11	0.635	-19
L3	-0.225	1.46E+04	-12	0.644	-23
L4	-55.3	1.41E+04	-12	149.	-7
NF	—	—	—	—	—
NS	-0.853	1.34E+04	-12	4.06	126

Table C–1102. Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.79E+04	1.80E+04	-1.76E+04	1.78E+04
A2	-1.79E+04	1.80E+04	-1.76E+04	1.78E+04
FD	-2.58E+04	2.58E+04	-2.55E+04	2.55E+04
L1	-1.46E+04	1.46E+04	-1.45E+04	1.45E+04
L3	-1.46E+04	1.46E+04	-1.45E+04	1.45E+04
L4	-1.42E+04	1.42E+04	-1.40E+04	1.39E+04
NF	—	—	—	—
NS	-1.31E+04	1.32E+04	-1.30E+04	1.30E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-552. Time history of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

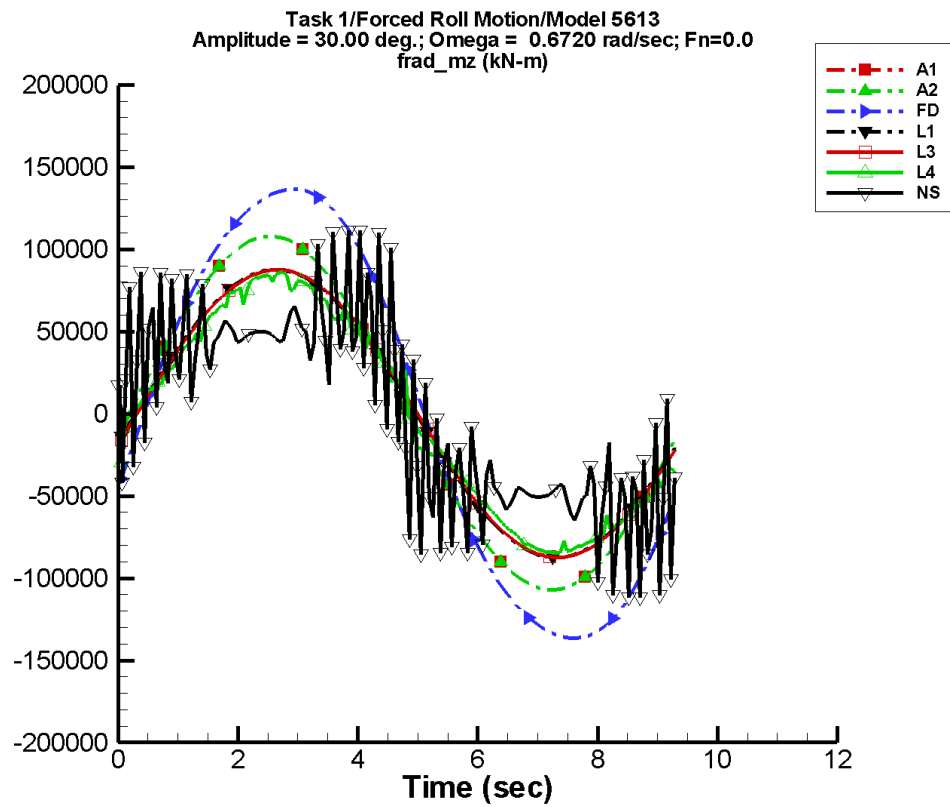
Table C–1103. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-68.4	5.33E+04	-7	188.	-77
A2	-68.4	5.33E+04	-7	188.	-77
FD	41.3	7.56E+04	-17	89.9	131
L1	-0.711	4.37E+04	-11	1.89	-21
L3	-0.728	4.37E+04	-12	1.91	-24
L4	-348.	4.10E+04	-12	723.	-27
NF	—	—	—	—	—
NS	-3.39	3.77E+04	-12	37.8	112

Table C–1104. Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.35E+04	5.39E+04	-5.29E+04	5.32E+04
A2	-5.35E+04	5.39E+04	-5.29E+04	5.32E+04
FD	-7.51E+04	7.51E+04	-7.43E+04	7.43E+04
L1	-4.37E+04	4.37E+04	-4.36E+04	4.36E+04
L3	-4.37E+04	4.37E+04	-4.35E+04	4.35E+04
L4	-4.10E+04	4.10E+04	-4.08E+04	4.07E+04
NF	—	—	—	—
NS	-4.26E+04	4.26E+04	-3.47E+04	3.49E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-553. Time history of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

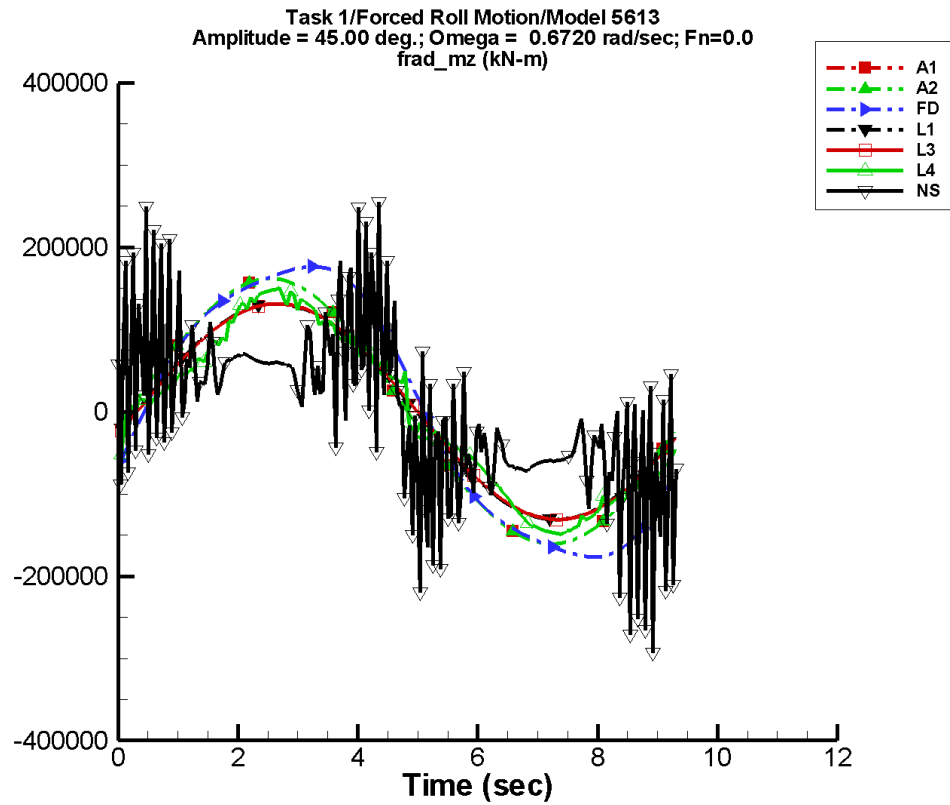
Table C–1105. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-137.	1.07E+05	-7	376.	-77
A2	-137.	1.07E+05	-7	376.	-77
FD	324.	1.40E+05	-18	704.	130
L1	-1.55	8.75E+04	-11	3.80	-23
L3	-1.58	8.75E+04	-12	3.83	-26
L4	-1.12E+03	8.28E+04	-13	927.	-46
NF	—	—	—	—	—
NS	-10.5	6.57E+04	-11	150.	96

Table C–1106. Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.07E+05	1.08E+05	-1.06E+05	1.06E+05
A2	-1.07E+05	1.08E+05	-1.06E+05	1.06E+05
FD	-1.37E+05	1.37E+05	-1.35E+05	1.35E+05
L1	-8.75E+04	8.75E+04	-8.71E+04	8.71E+04
L3	-8.75E+04	8.75E+04	-8.71E+04	8.71E+04
L4	-8.48E+04	8.60E+04	-8.34E+04	8.35E+04
NF	—	—	—	—
NS	-1.12E+05	1.12E+05	-6.55E+04	6.50E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-554. Time history of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

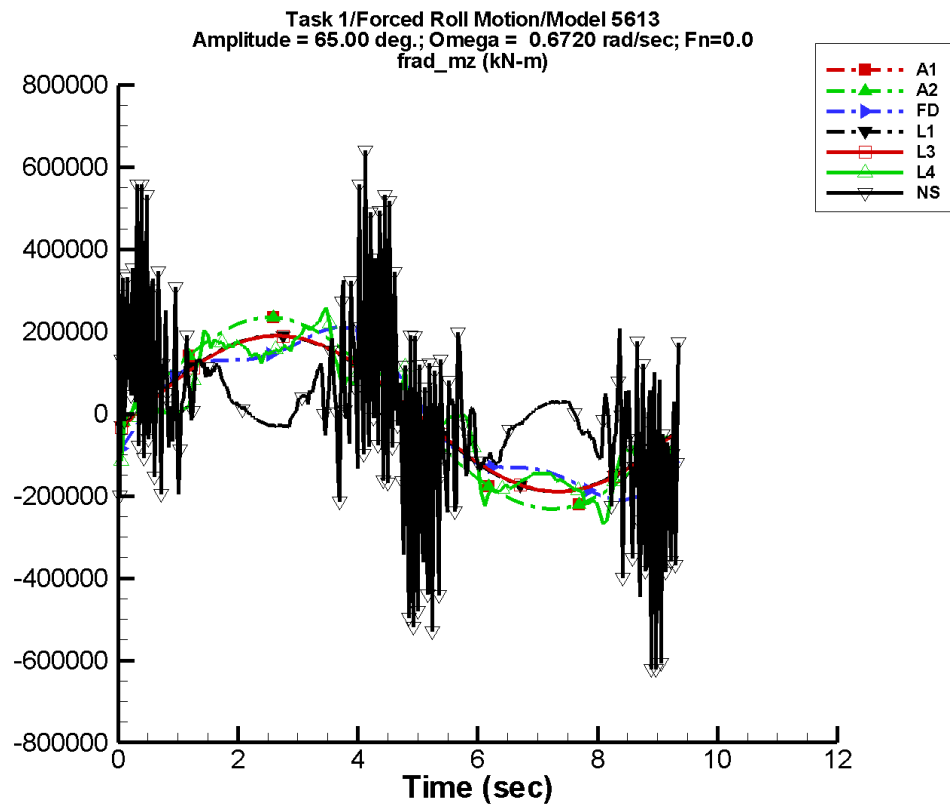
Table C–1107. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-205.	1.60E+05	-7	563.	-77
A2	-205.	1.60E+05	-7	563.	-77
FD	1.05E+03	1.83E+05	-19	2.30E+03	130
L1	-2.54	1.31E+05	-11	5.67	-25
L3	-2.58	1.31E+05	-12	5.74	-28
L4	-2.25E+03	1.34E+05	-16	2.56E+03	-136
NF	—	—	—	—	—
NS	16.5	8.31E+04	-9	282.	73

Table C–1108. Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.61E+05	1.62E+05	-1.59E+05	1.60E+05
A2	-1.61E+05	1.62E+05	-1.59E+05	1.60E+05
FD	-1.77E+05	1.77E+05	-1.75E+05	1.75E+05
L1	-1.31E+05	1.31E+05	-1.31E+05	1.31E+05
L3	-1.31E+05	1.31E+05	-1.31E+05	1.31E+05
L4	-1.49E+05	1.51E+05	-1.47E+05	1.45E+05
NF	—	—	—	—
NS	-2.93E+05	2.55E+05	-1.14E+05	1.12E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-555. Time history of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

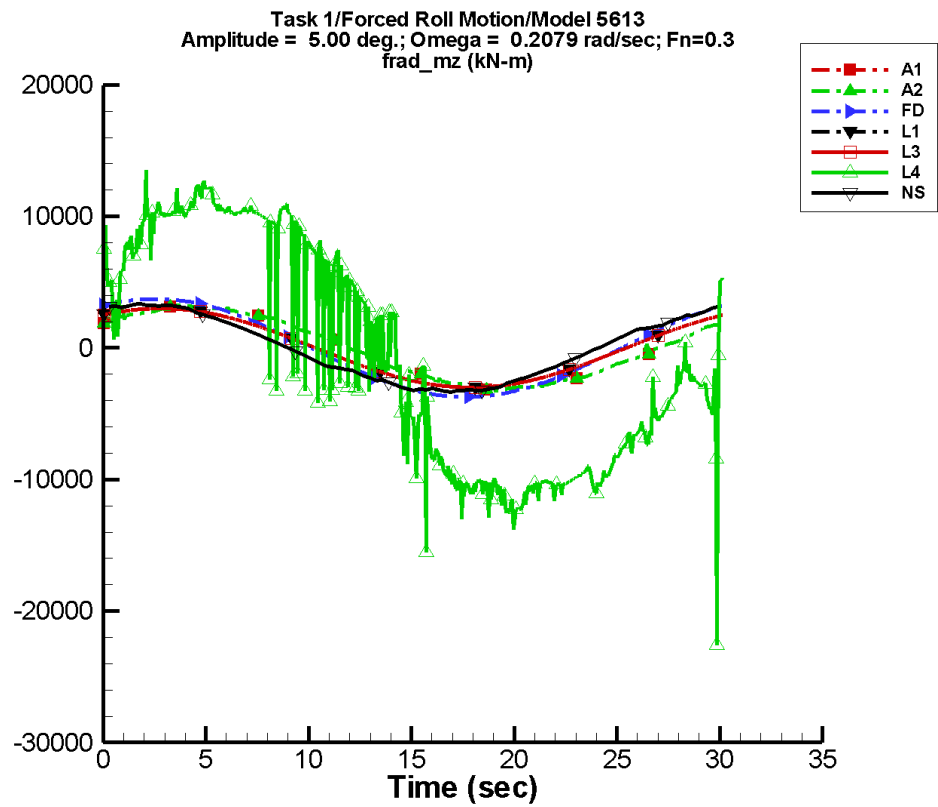
Table C–1109. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-297.	2.31E+05	-7	814.	-77
A2	-297.	2.31E+05	-7	814.	-77
FD	2.94E+03	1.94E+05	-23	6.47E+03	129
L1	-4.03	1.90E+05	-11	8.20	-28
L3	-4.04	1.90E+05	-12	8.34	-31
L4	-5.42E+03	1.83E+05	-17	1.40E+03	-69
NF	—	—	—	—	—
NS	-109.	6.66E+04	-4	498.	82

Table C–1110. Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.0 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.32E+05	2.34E+05	-2.29E+05	2.31E+05
A2	-2.32E+05	2.34E+05	-2.29E+05	2.31E+05
FD	-2.10E+05	2.10E+05	-2.04E+05	2.04E+05
L1	-1.90E+05	1.90E+05	-1.89E+05	1.89E+05
L3	-1.89E+05	1.89E+05	-1.89E+05	1.89E+05
L4	-2.69E+05	2.59E+05	-2.25E+05	2.18E+05
NF	—	—	—	—
NS	-6.22E+05	6.40E+05	-2.04E+05	2.06E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-556. Time history of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

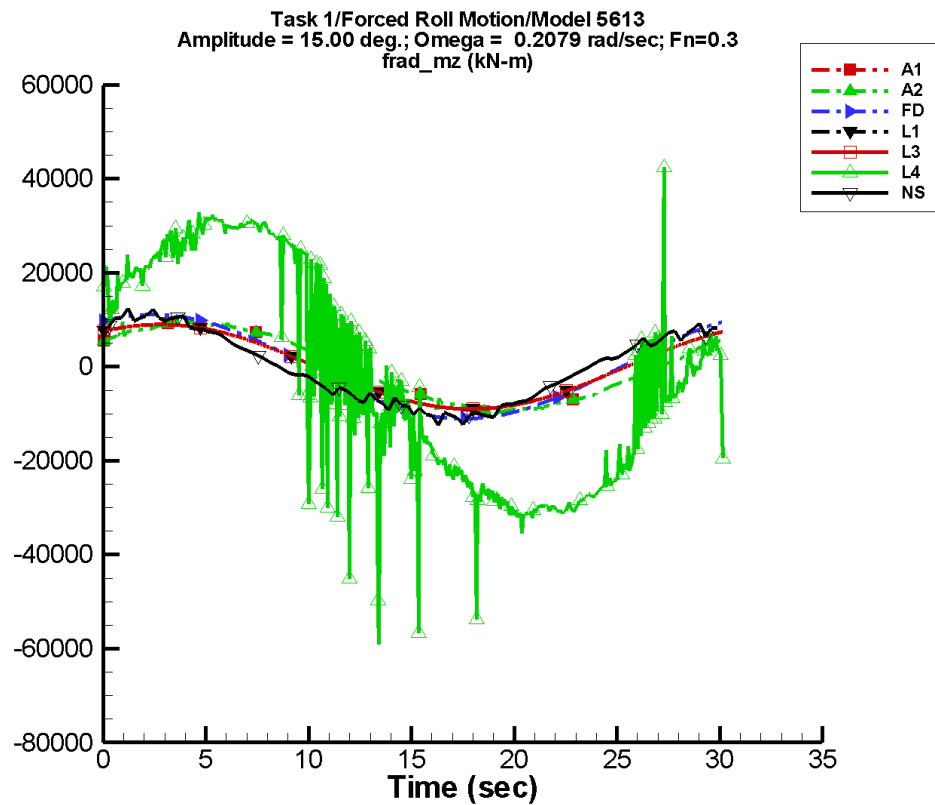
Table C–1111. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-1.19	3.11E+03	38	1.77	17
A2	-1.19	3.11E+03	38	1.77	17
FD	-1.66E-02	3.72E+03	59	0.682	99
L1	-1.78	3.00E+03	57	0.102	-154
L3	-1.79	3.00E+03	57	2.34E-02	-19
L4	-565.	1.16E+04	20	501.	-14
NF	—	—	—	—	—
NS	9.78E-03	3.28E+03	72	6.33E-02	12

Table C–1112. Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-3.30E+03	3.36E+03	-3.24E+03	3.25E+03
A2	-3.30E+03	3.36E+03	-3.24E+03	3.25E+03
FD	-3.72E+03	3.72E+03	-3.72E+03	3.72E+03
L1	-3.00E+03	3.00E+03	-3.00E+03	3.00E+03
L3	-3.00E+03	3.00E+03	-3.00E+03	3.00E+03
L4	-2.26E+04	1.35E+04	-1.24E+04	1.23E+04
NF	—	—	—	—
NS	-3.38E+03	3.38E+03	-3.25E+03	3.25E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-557. Time history of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

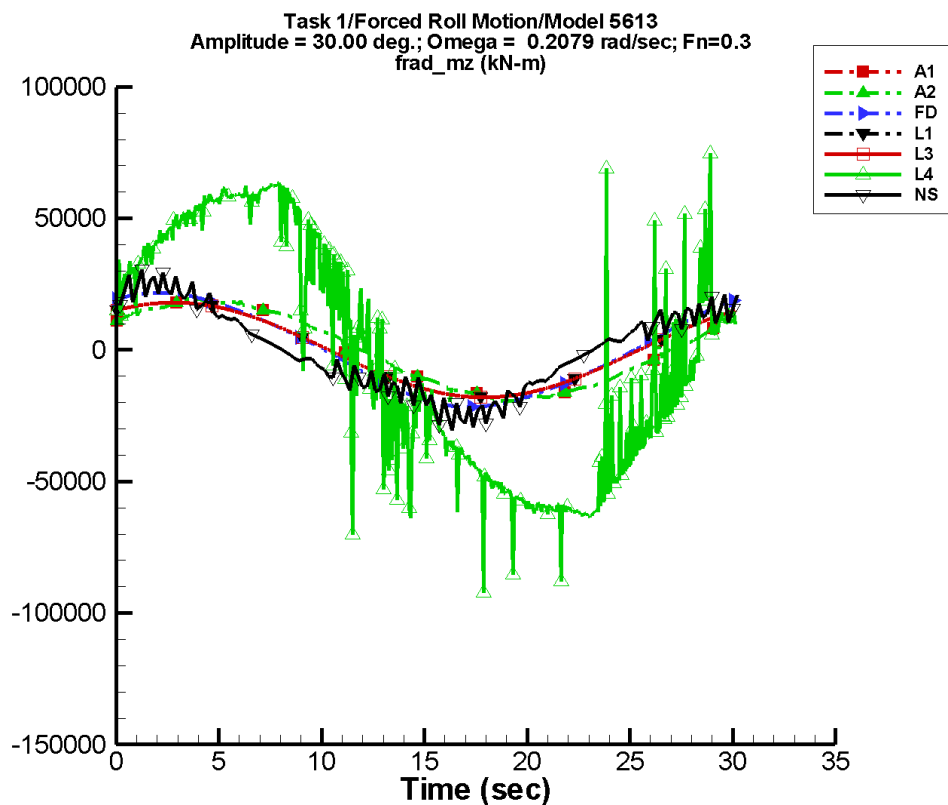
Table C–1113. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-3.56	9.33E+03	38	5.32	17
A2	-3.56	9.33E+03	38	5.32	17
FD	-0.443	1.10E+04	60	18.3	99
L1	-1.78	9.00E+03	57	8.91E-02	-143
L3	-1.63	9.00E+03	57	0.138	10
L4	-2.12E+03	3.03E+04	29	2.73E+03	-42
NF	—	—	—	—	—
NS	-4.33E-02	1.03E+04	74	0.272	32

Table C–1114. Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-9.89E+03	1.01E+04	-9.70E+03	9.73E+03
A2	-9.89E+03	1.01E+04	-9.70E+03	9.73E+03
FD	-1.11E+04	1.11E+04	-1.11E+04	1.11E+04
L1	-9.00E+03	9.00E+03	-9.00E+03	9.00E+03
L3	-9.00E+03	9.00E+03	-9.00E+03	9.00E+03
L4	-5.90E+04	4.25E+04	-3.20E+04	3.15E+04
NF	—	—	—	—
NS	-1.24E+04	1.24E+04	-1.08E+04	1.08E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-558. Time history of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

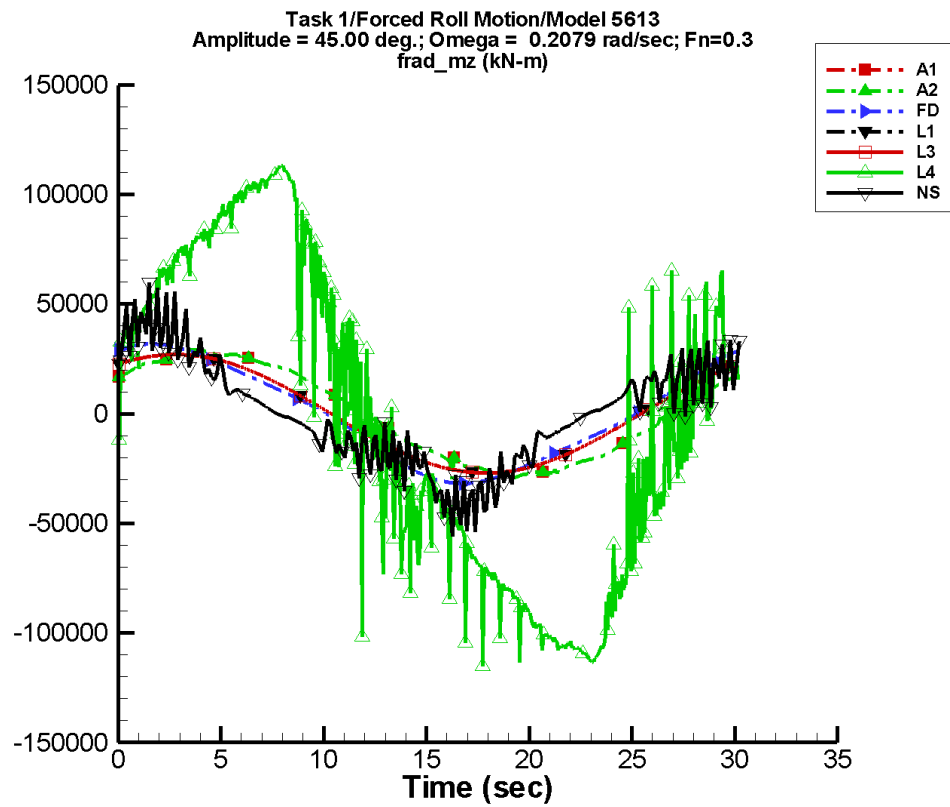
Table C–1115. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-7.12	1.87E+04	38	10.6	17
A2	-7.12	1.87E+04	38	10.6	17
FD	-3.49	2.12E+04	61	144.	99
L1	-1.79	1.80E+04	57	7.33E-02	-133
L3	-1.39	1.80E+04	57	0.326	17
L4	-3.19E+03	5.88E+04	29	4.09E+03	-58
NF	—	—	—	—	—
NS	0.123	2.13E+04	77	0.357	18

Table C–1116. Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.98E+04	2.01E+04	-1.94E+04	1.95E+04
A2	-1.98E+04	2.01E+04	-1.94E+04	1.95E+04
FD	-2.17E+04	2.17E+04	-2.17E+04	2.17E+04
L1	-1.80E+04	1.80E+04	-1.80E+04	1.80E+04
L3	-1.80E+04	1.80E+04	-1.80E+04	1.80E+04
L4	-9.23E+04	7.47E+04	-6.33E+04	6.23E+04
NF	—	—	—	—
NS	-3.05E+04	3.05E+04	-2.52E+04	2.52E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-559. Time history of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

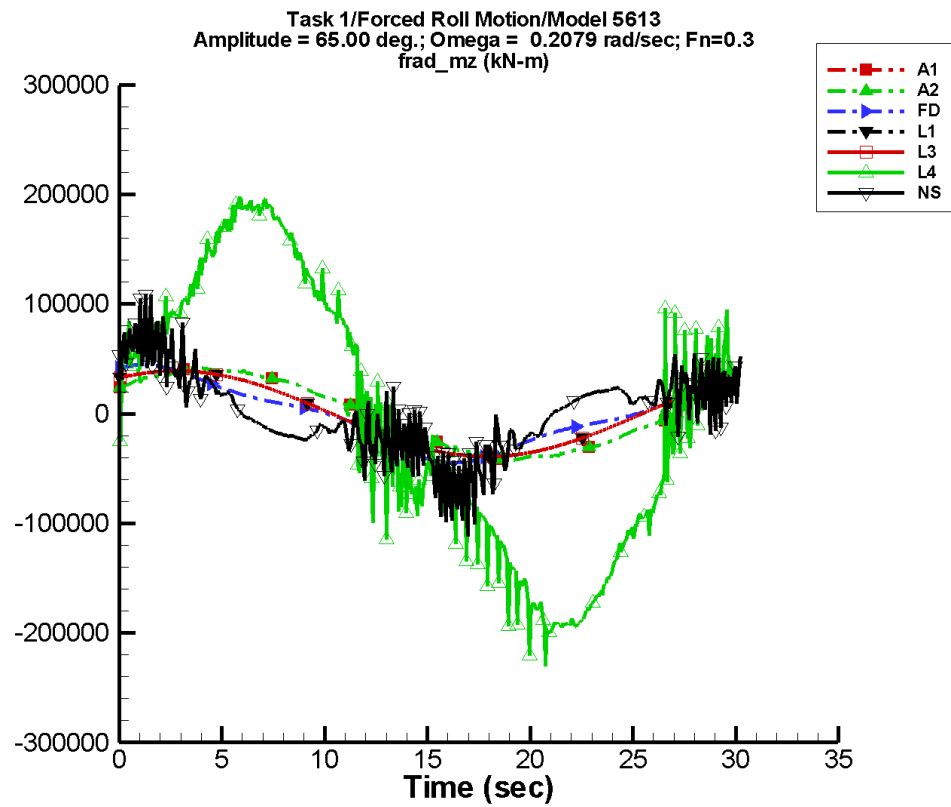
Table C–1117. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-10.7	2.80E+04	38	16.0	17
A2	-10.7	2.80E+04	38	16.0	17
FD	-11.5	2.99E+04	64	475.	100
L1	-1.79	2.70E+04	57	5.99E-02	-89
L3	-1.17	2.70E+04	57	0.565	19
L4	-4.40E+03	9.57E+04	26	6.86E+03	-80
NF	—	—	—	—	—
NS	12.5	3.13E+04	79	30.9	77

Table C–1118. Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.97E+04	3.02E+04	-2.91E+04	2.92E+04
A2	-2.97E+04	3.02E+04	-2.91E+04	2.92E+04
FD	-3.18E+04	3.18E+04	-3.17E+04	3.17E+04
L1	-2.70E+04	2.70E+04	-2.70E+04	2.70E+04
L3	-2.70E+04	2.70E+04	-2.70E+04	2.70E+04
L4	-1.15E+05	1.13E+05	-1.12E+05	1.12E+05
NF	—	—	—	—
NS	-5.60E+04	5.97E+04	-4.24E+04	4.26E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-560. Time history of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

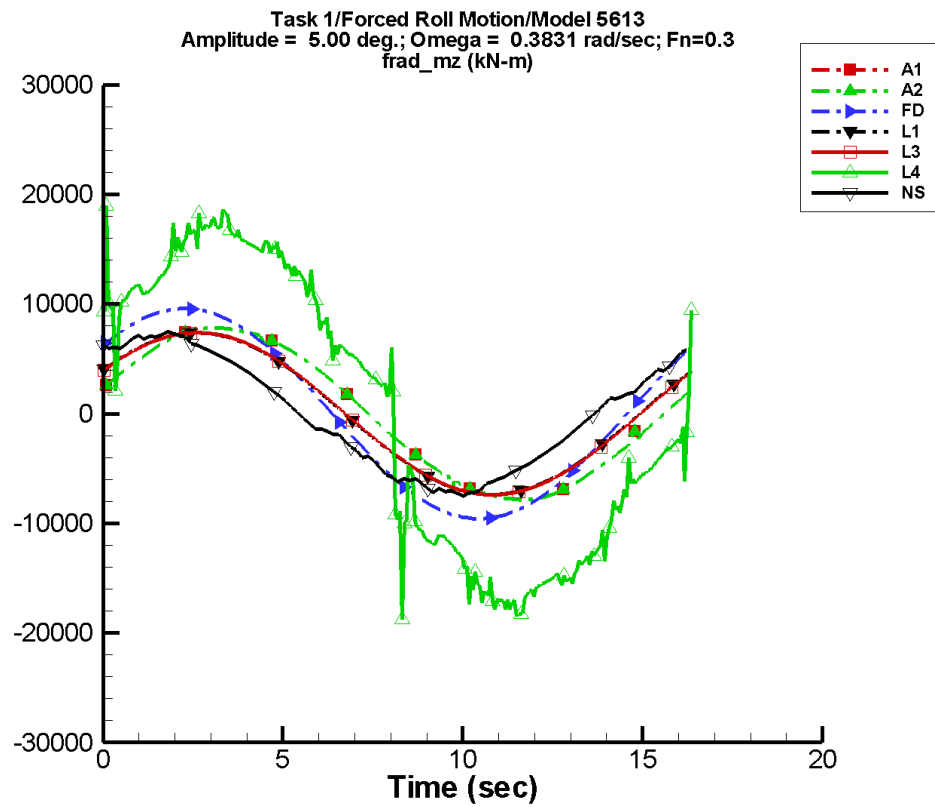
Table C–1119. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-15.4	4.04E+04	38	23.1	17
A2	-15.4	4.04E+04	38	23.1	17
FD	-33.3	3.82E+04	70	1.36E+03	100
L1	-1.88	3.90E+04	57	0.126	-106
L3	-0.925	3.90E+04	57	0.751	17
L4	-5.85E+03	1.64E+05	21	1.16E+04	-96
NF	—	—	—	—	—
NS	17.7	4.21E+04	90	56.5	-94

Table C–1120. Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.2079 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.28E+04	4.36E+04	-4.21E+04	4.22E+04
A2	-4.28E+04	4.36E+04	-4.21E+04	4.22E+04
FD	-4.47E+04	4.47E+04	-4.46E+04	4.46E+04
L1	-3.90E+04	3.90E+04	-3.90E+04	3.90E+04
L3	-3.90E+04	3.90E+04	-3.90E+04	3.90E+04
L4	-2.30E+05	1.99E+05	-2.00E+05	1.92E+05
NF	—	—	—	—
NS	-1.11E+05	1.09E+05	-6.96E+04	6.93E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-561. Time history of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

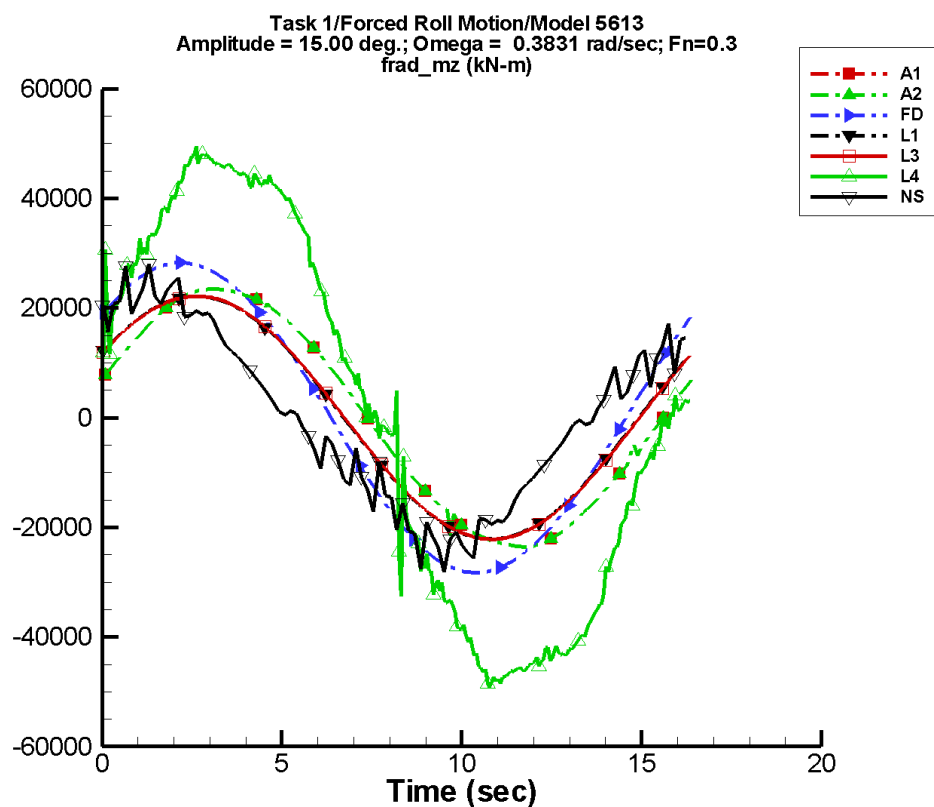
Table C–1121. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-4.25	7.81E+03	18	21.9	52
A2	-4.25	7.81E+03	18	21.9	52
FD	0.488	9.59E+03	40	2.07	114
L1	-1.85	7.38E+03	33	3.46E-02	-29
L3	-1.78	7.39E+03	32	1.93E-02	72
L4	142.	1.73E+04	15	248.	125
NF	—	—	—	—	—
NS	-2.82E-02	6.93E+03	58	0.654	-146

Table C–1122. Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.85E+03	8.37E+03	-7.81E+03	7.79E+03
A2	-7.85E+03	8.37E+03	-7.81E+03	7.79E+03
FD	-9.59E+03	9.59E+03	-9.55E+03	9.55E+03
L1	-7.38E+03	7.37E+03	-7.37E+03	7.36E+03
L3	-7.39E+03	7.39E+03	-7.38E+03	7.38E+03
L4	-1.92E+04	1.90E+04	-1.77E+04	1.76E+04
NF	—	—	—	—
NS	-7.52E+03	7.52E+03	-7.15E+03	7.14E+03

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-562. Time history of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

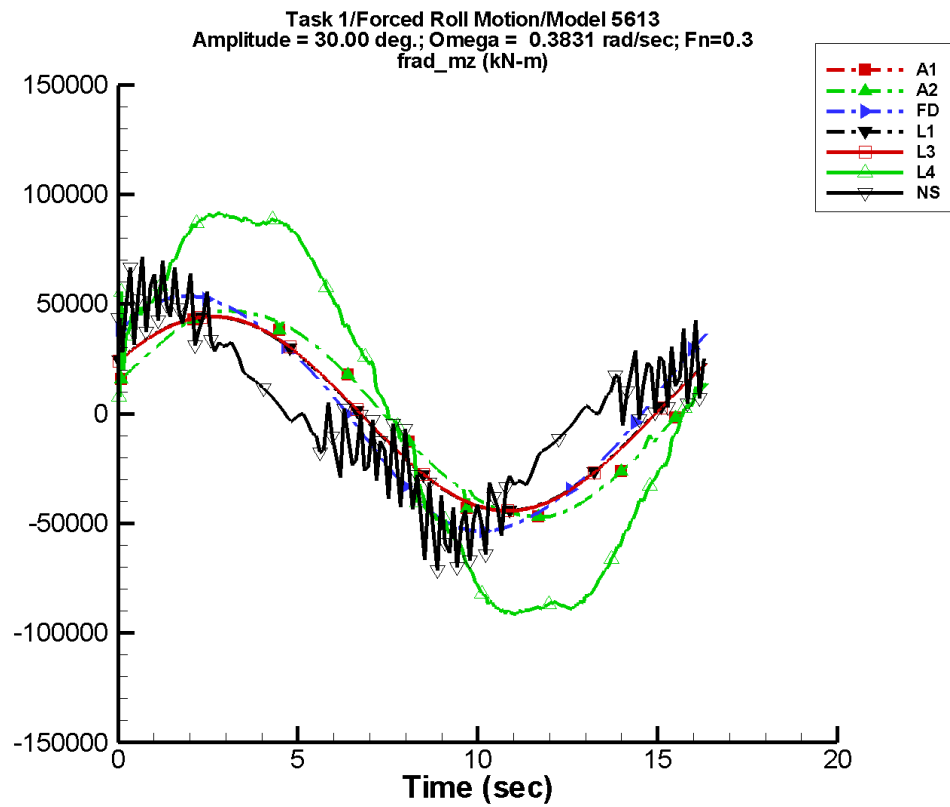
Table C–1123. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-12.8	2.34E+04	18	65.6	52
A2	-12.8	2.34E+04	18	65.6	52
FD	13.1	2.83E+04	41	55.6	114
L1	-1.89	2.21E+04	33	4.81E-02	-104
L3	-1.76	2.22E+04	32	3.20E-02	-71
L4	80.2	4.75E+04	15	124.	80
NF	—	—	—	—	—
NS	-0.140	2.14E+04	61	2.88	-124

Table C–1124. Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.35E+04	2.51E+04	-2.34E+04	2.34E+04
A2	-2.35E+04	2.51E+04	-2.34E+04	2.34E+04
FD	-2.83E+04	2.83E+04	-2.82E+04	2.82E+04
L1	-2.21E+04	2.21E+04	-2.21E+04	2.21E+04
L3	-2.22E+04	2.22E+04	-2.21E+04	2.21E+04
L4	-4.96E+04	4.95E+04	-4.80E+04	4.78E+04
NF	—	—	—	—
NS	-2.82E+04	2.81E+04	-2.35E+04	2.34E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-563. Time history of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

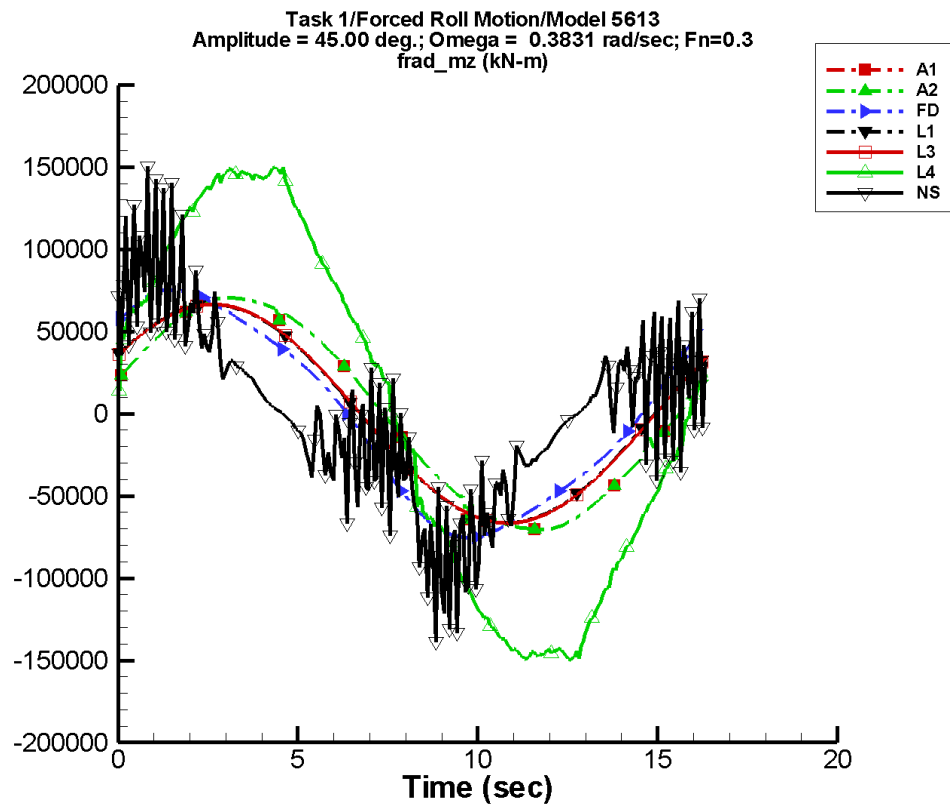
Table C–1125. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-25.5	4.68E+04	18	131.	52
A2	-25.5	4.68E+04	18	131.	52
FD	103.	5.35E+04	42	437.	114
L1	-1.92	4.43E+04	33	7.49E-02	-156
L3	-1.68	4.43E+04	32	2.84E-02	-159
L4	114.	9.33E+04	14	162.	134
NF	—	—	—	—	—
NS	-1.17E-02	4.35E+04	66	11.2	-104

Table C–1126. Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-4.71E+04	5.02E+04	-4.69E+04	4.67E+04
A2	-4.71E+04	5.02E+04	-4.69E+04	4.67E+04
FD	-5.36E+04	5.36E+04	-5.34E+04	5.34E+04
L1	-4.43E+04	4.43E+04	-4.42E+04	4.42E+04
L3	-4.43E+04	4.43E+04	-4.43E+04	4.43E+04
L4	-9.14E+04	9.15E+04	-9.07E+04	9.08E+04
NF	—	—	—	—
NS	-7.14E+04	7.14E+04	-5.52E+04	5.51E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-564. Time history of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

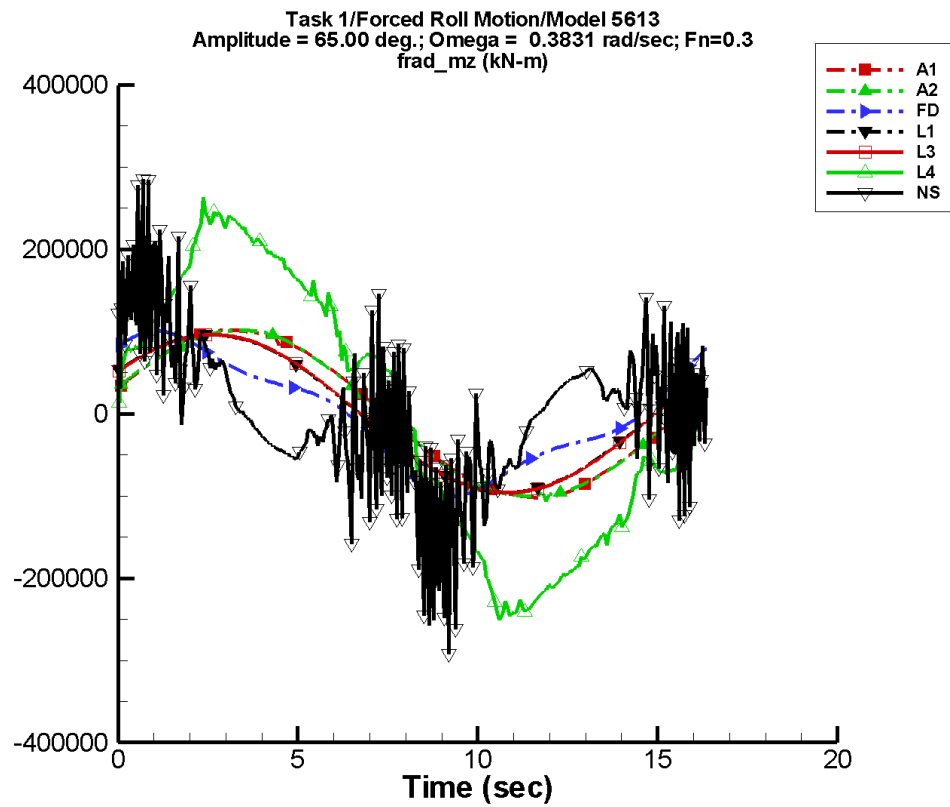
Table C–1127. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-38.2	7.03E+04	18	197.	52
A2	-38.2	7.03E+04	18	197.	52
FD	338.	7.29E+04	45	1.43E+03	114
L1	-1.97	6.64E+04	33	0.193	-133
L3	-1.65	6.65E+04	32	0.112	-110
L4	-87.9	1.48E+05	13	518.	54
NF	—	—	—	—	—
NS	27.8	6.35E+04	70	50.2	68

Table C–1128. Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-7.06E+04	7.53E+04	-7.03E+04	7.01E+04
A2	-7.06E+04	7.53E+04	-7.03E+04	7.01E+04
FD	-7.53E+04	7.53E+04	-7.49E+04	7.49E+04
L1	-6.64E+04	6.64E+04	-6.63E+04	6.63E+04
L3	-6.65E+04	6.65E+04	-6.64E+04	6.64E+04
L4	-1.50E+05	1.50E+05	-1.48E+05	1.48E+05
NF	—	—	—	—
NS	-1.39E+05	1.50E+05	-9.40E+04	9.46E+04

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-565. Time history of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

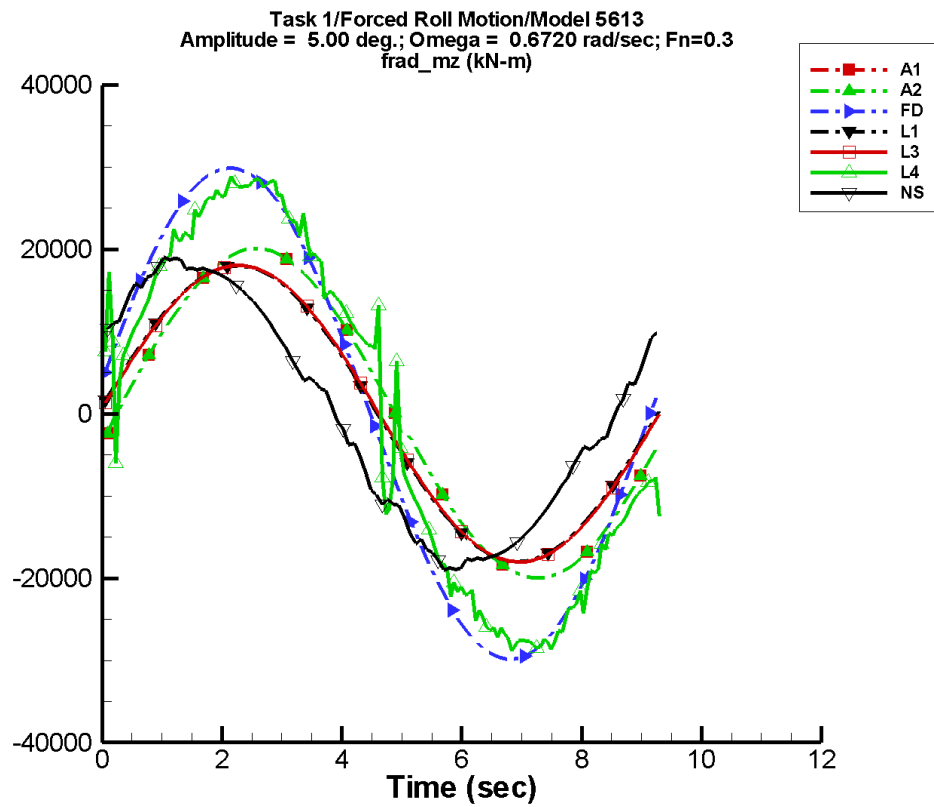
Table C–1129. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-55.2	1.01E+05	18	284.	52
A2	-49.0	1.02E+05	18	264.	-54
FD	963.	8.69E+04	52	4.08E+03	115
L1	-2.15	9.59E+04	33	0.405	-138
L3	-1.70	9.61E+04	32	0.256	-111
L4	474.	2.17E+05	12	2.52E+03	82
NF	—	—	—	—	—
NS	37.8	8.39E+04	82	165.	114

Table C–1130. Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.3831 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.02E+05	1.09E+05	-1.02E+05	1.01E+05
A2	-1.10E+05	1.04E+05	-1.00E+05	1.03E+05
FD	-1.01E+05	1.01E+05	-9.98E+04	9.99E+04
L1	-9.59E+04	9.59E+04	-9.58E+04	9.58E+04
L3	-9.61E+04	9.60E+04	-9.59E+04	9.59E+04
L4	-2.63E+05	2.65E+05	-2.41E+05	2.41E+05
NF	—	—	—	—
NS	-2.92E+05	2.85E+05	-1.58E+05	1.57E+05

TASK 1/ROLL MOTION/MODEL 5613



Data identically zero, insufficient, or not available from NFA.

Figure C-566. Time history of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

TASK 1/ROLL MOTION/MODEL 5613

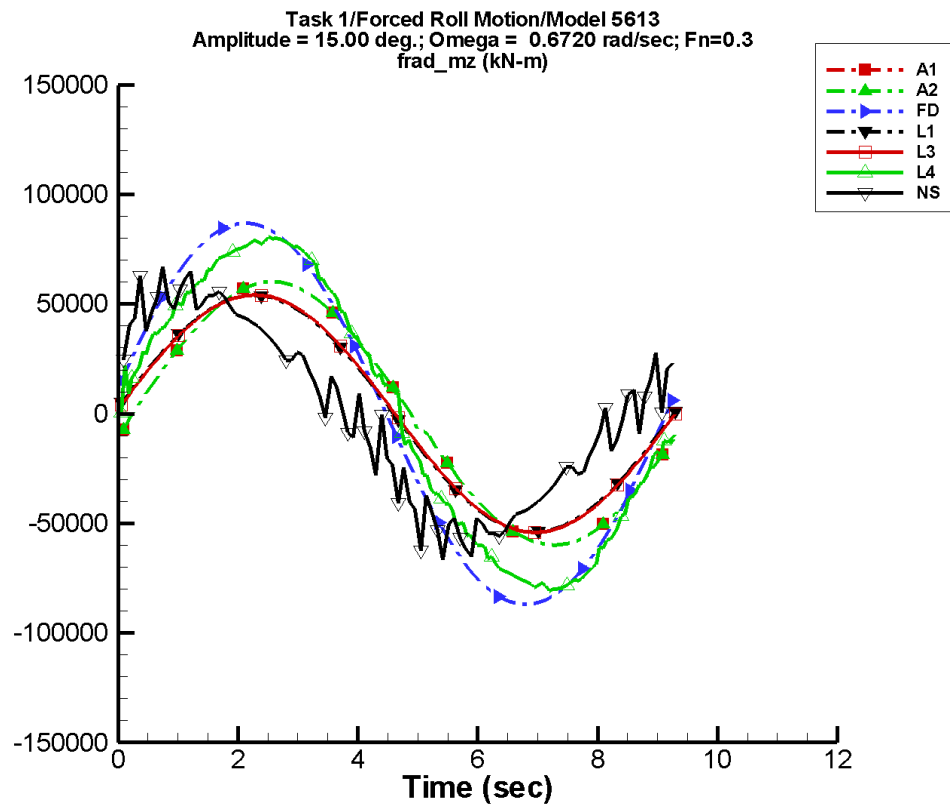
Table C–1131. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-21.2	1.99E+04	-9	58.6	-86
A2	-21.2	1.99E+04	-9	58.6	-86
FD	2.27	2.99E+04	8	4.17	153
L1	-1.90	1.80E+04	3	3.45E-02	-139
L3	-1.92	1.80E+04	2	0.176	-34
L4	98.5	2.83E+04	0	238.	109
NF	—	—	—	—	—
NS	-2.32	1.81E+04	33	4.61	139

Table C–1132. Minimum and maximum of M_z^{rad} for one period at amplitude = 5.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.00E+04	2.01E+04	-1.97E+04	1.98E+04
A2	-2.00E+04	2.01E+04	-1.97E+04	1.98E+04
FD	-2.99E+04	2.99E+04	-2.95E+04	2.95E+04
L1	-1.80E+04	1.80E+04	-1.79E+04	1.79E+04
L3	-1.80E+04	1.80E+04	-1.80E+04	1.80E+04
L4	-2.88E+04	2.89E+04	-2.81E+04	2.81E+04
NF	—	—	—	—
NS	-1.90E+04	1.90E+04	-1.83E+04	1.83E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-567. Time history of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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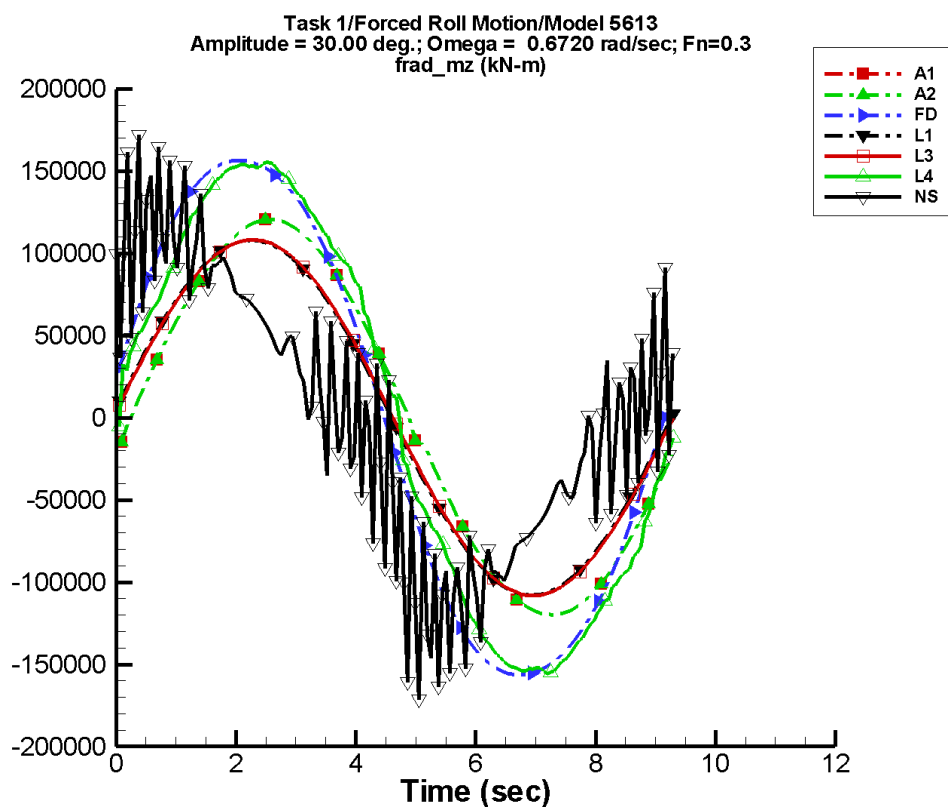
Table C–1133. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-63.5	5.96E+04	-9	176.	-86
A2	-63.5	5.96E+04	-9	176.	-86
FD	61.7	8.76E+04	8	111.	152
L1	-1.96	5.40E+04	3	6.88E-02	-137
L3	-2.01	5.41E+04	2	0.373	-44
L4	150.	7.98E+04	0	612.	125
NF	—	—	—	—	—
NS	-8.16	5.38E+04	37	39.5	102

Table C–1134. Minimum and maximum of M_z^{rad} for one period at amplitude = 15.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-5.99E+04	6.03E+04	-5.92E+04	5.95E+04
A2	-5.99E+04	6.03E+04	-5.92E+04	5.95E+04
FD	-8.69E+04	8.69E+04	-8.60E+04	8.60E+04
L1	-5.40E+04	5.40E+04	-5.37E+04	5.37E+04
L3	-5.41E+04	5.41E+04	-5.39E+04	5.39E+04
L4	-8.09E+04	8.09E+04	-7.92E+04	7.93E+04
NF	—	—	—	—
NS	-6.67E+04	6.69E+04	-5.56E+04	5.57E+04

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Data identically zero, insufficient, or not available from NFA.

Figure C-568. Time history of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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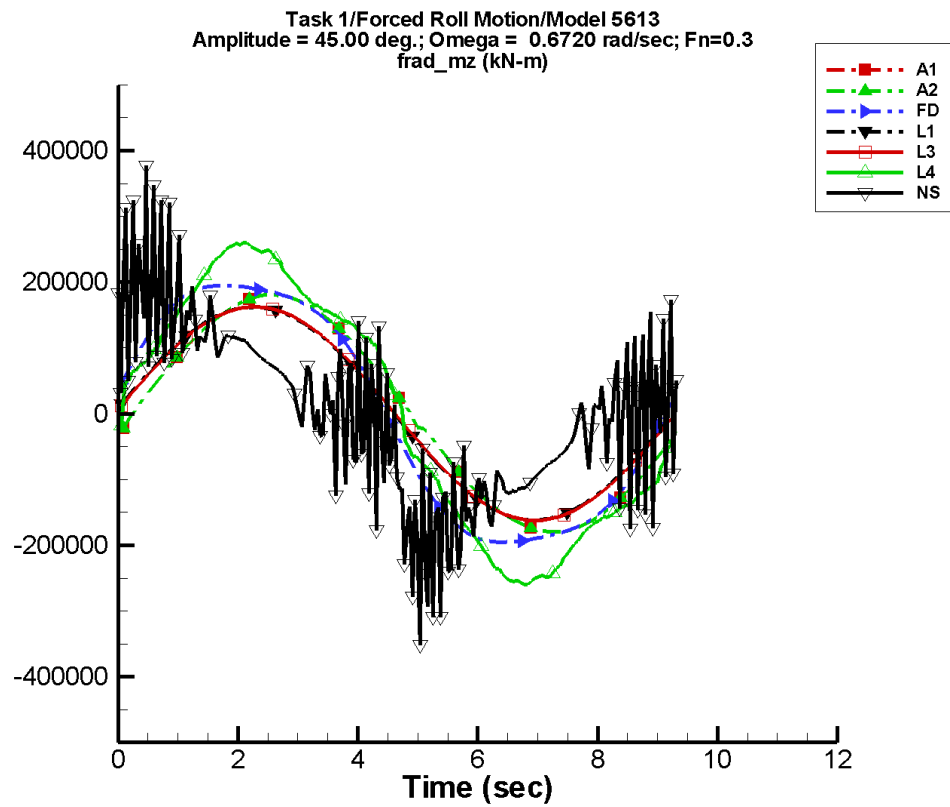
Table C–1135. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-127.	1.19E+05	-9	352.	-86
A2	-127.	1.19E+05	-9	352.	-86
FD	484.	1.62E+05	9	873.	152
L1	-2.13	1.08E+05	3	0.246	-134
L3	-2.25	1.08E+05	2	0.728	-52
L4	187.	1.58E+05	0	1.19E+03	62
NF	—	—	—	—	—
NS	-19.3	1.05E+05	41	150.	89

Table C–1136. Minimum and maximum of M_z^{rad} for one period at amplitude = 30.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.20E+05	1.21E+05	-1.18E+05	1.19E+05
A2	-1.20E+05	1.21E+05	-1.18E+05	1.19E+05
FD	-1.56E+05	1.56E+05	-1.55E+05	1.55E+05
L1	-1.08E+05	1.08E+05	-1.07E+05	1.07E+05
L3	-1.08E+05	1.08E+05	-1.08E+05	1.08E+05
L4	-1.56E+05	1.56E+05	-1.54E+05	1.54E+05
NF	—	—	—	—
NS	-1.71E+05	1.72E+05	-1.21E+05	1.22E+05

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Data identically zero, insufficient, or not available from NFA.

Figure C-569. Time history of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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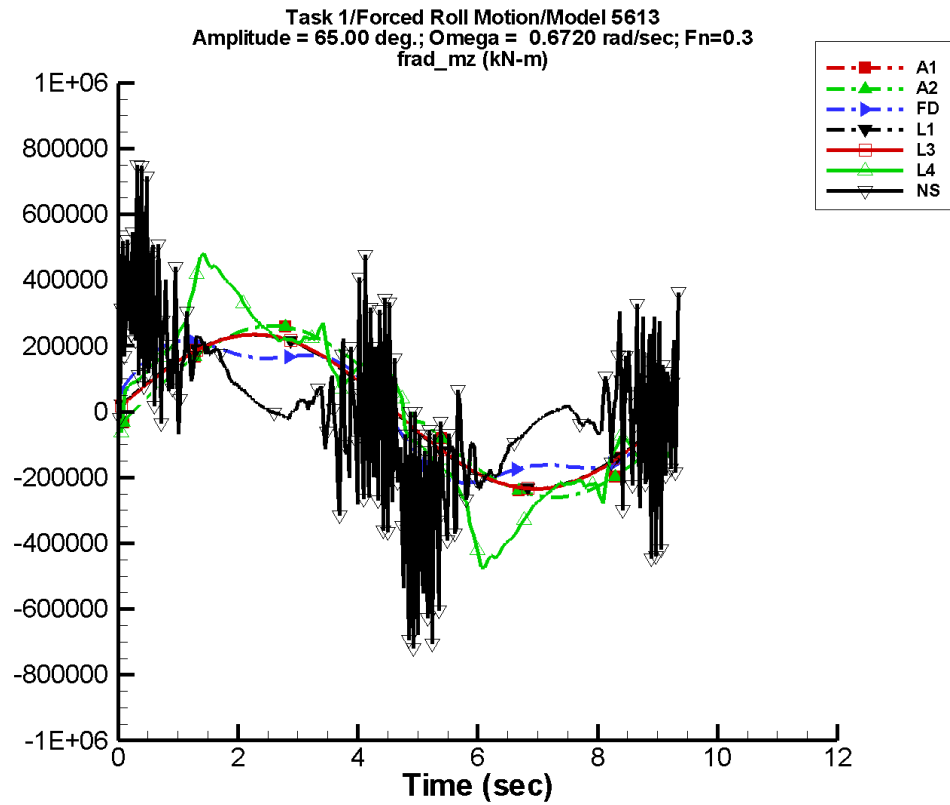
Table C–1137. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-191.	1.79E+05	-9	527.	-86
A2	-191.	1.79E+05	-9	527.	-86
FD	1.58E+03	2.10E+05	10	2.84E+03	152
L1	-2.40	1.62E+05	3	0.525	-129
L3	-2.59	1.62E+05	2	1.10	-59
L4	212.	2.46E+05	1	2.71E+03	2
NF	—	—	—	—	—
NS	31.6	1.50E+05	45	343.	81

Table C–1138. Minimum and maximum of M_z^{rad} for one period at amplitude = 45.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-1.80E+05	1.81E+05	-1.78E+05	1.78E+05
A2	-1.80E+05	1.81E+05	-1.78E+05	1.78E+05
FD	-1.95E+05	1.95E+05	-1.94E+05	1.94E+05
L1	-1.62E+05	1.62E+05	-1.61E+05	1.61E+05
L3	-1.62E+05	1.62E+05	-1.62E+05	1.62E+05
L4	-2.60E+05	2.60E+05	-2.55E+05	2.56E+05
NF	—	—	—	—
NS	-3.52E+05	3.77E+05	-2.08E+05	2.11E+05

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Data identically zero, insufficient, or not available from NFA.

Figure C-570. Time history of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

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Table C–1139. Coefficients of the Fourier fit $a_0 + a_1 \sin(\omega t + \Phi_1) + a_2 \sin(2\omega t + \Phi_2) + \dots$ of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	a_0 (kN-m)	a_1 (kN-m)	Φ_1 (deg)	a_2 (kN-m)	Φ_2 (deg)
A1	-275.	2.58E+05	-9	762.	-86
A2	-275.	2.58E+05	-9	762.	-86
FD	4.43E+03	2.18E+05	14	8.00E+03	152
L1	-2.84	2.34E+05	3	1.01	-136
L3	-3.12	2.34E+05	2	1.62	-73
L4	-1.38E+03	3.35E+05	7	1.55E+04	-3
NF	—	—	—	—	—
NS	-159.	1.88E+05	57	429.	86

Table C–1140. Minimum and maximum of M_z^{rad} for one period at amplitude = 65.00 deg, frequency = 0.6720 rad/s, Fn = 0.3 in the case of prescribed roll motion of Model 5613 scaled to L = 154 m.

Code	Unfiltered		Filtered	
	Minimum (kN-m)	Maximum (kN-m)	Minimum (kN-m)	Maximum (kN-m)
A1	-2.60E+05	2.61E+05	-2.57E+05	2.58E+05
A2	-2.60E+05	2.61E+05	-2.57E+05	2.58E+05
FD	-2.16E+05	2.16E+05	-2.10E+05	2.11E+05
L1	-2.34E+05	2.34E+05	-2.33E+05	2.33E+05
L3	-2.34E+05	2.34E+05	-2.33E+05	2.33E+05
L4	-4.75E+05	4.80E+05	-4.41E+05	4.41E+05
NF	—	—	—	—
NS	-7.19E+05	7.50E+05	-3.77E+05	3.77E+05